Appendix Test Data for LTE_band_4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	25.04	-2.13	22.91	<=30	Pass
			2	25.03	-2.13	22.90	<=30	Pass
			5	25.06	-2.13	22.93	<=30	Pass
		3	0	25.01	-2.13	22.88	<=30	Pass
			2	25.02	-2.13	22.89	<=30	Pass
			3	25.01	-2.13	22.88	<=30	Pass
		6	0	24.07	-2.13	21.94	<=30	Pass
	1732.5	1	0	24.94	-2.13	22.81	<=30	Pass
			2	24.93	-2.13	22.80	<=30	Pass
			5	24.95	-2.13	22.82	<=30	Pass
		3	0	25.05	-2.13	22.92	<=30	Pass
			2	24.99	-2.13	22.86	<=30	Pass
			3	25.00	-2.13	22.87	<=30	Pass
		6	0	24.04	-2.13	21.91	<=30	Pass
	1754.3	1	0	25.01	-2.13	22.88	<=30	Pass
			2	25.00	-2.13	22.87	<=30	Pass
			5	24.64	-2.13	22.51	<=30	Pass
		3	0	25.03	-2.13	22.90	<=30	Pass
			2	25.03	-2.13	22.90	<=30	Pass
			3	25.05	-2.13	22.92	<=30	Pass
		6	0	24.05	-2.13	21.92	<=30	Pass
16QAM	1710.7	1	0	24.25	-2.13	22.12	<=30	Pass
			2	24.24	-2.13	22.11	<=30	Pass
			5	24.25	-2.13	22.12	<=30	Pass
		3	0	24.04	-2.13	21.91	<=30	Pass
			2	24.04	-2.13	21.91	<=30	Pass
			3	24.02	-2.13	21.89	<=30	Pass
		6	0	23.07	-2.13	20.94	<=30	Pass
	1732.5	1	0	24.01	-2.13	21.88	<=30	Pass
			2	24.00	-2.13	21.87	<=30	Pass
			5	23.99	-2.13	21.86	<=30	Pass
		3	0	24.18	-2.13	22.05	<=30	Pass
			2	24.15	-2.13	22.02	<=30	Pass
			3	24.18	-2.13	22.05	<=30	Pass
		6	0	23.00	-2.13	20.87	<=30	Pass
	1754.3	1	0	23.55	-2.13	21.42	<=30	Pass
			2	23.56	-2.13	21.43	<=30	Pass
			5	23.60	-2.13	21.47	<=30	Pass
		3	0	24.08	-2.13	21.95	<=30	Pass
			2	24.08	-2.13	21.95	<=30	Pass
			3	24.06	-2.13	21.93	<=30	Pass
		6	0	22.94	-2.13	20.81	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	25.07	-2.13	22.94	<=30	Pass
			7	25.02	-2.13	22.89	<=30	Pass
			14	25.03	-2.13	22.90	<=30	Pass
		8	0	24.00	-2.13	21.87	<=30	Pass
			4	24.01	-2.13	21.88	<=30	Pass
			7	24.00	-2.13	21.87	<=30	Pass
		15	0	23.98	-2.13	21.85	<=30	Pass
	1732.5	1	0	24.72	-2.13	22.59	<=30	Pass
			7	24.63	-2.13	22.50	<=30	Pass
			14	24.47	-2.13	22.34	<=30	Pass
		8	0	24.02	-2.13	21.89	<=30	Pass
			4	24.00	-2.13	21.87	<=30	Pass
			7	24.00	-2.13	21.87	<=30	Pass
		15	0	24.00	-2.13	21.87	<=30	Pass
	1753.5	1	0	24.47	-2.13	22.34	<=30	Pass
			7	24.51	-2.13	22.38	<=30	Pass
			14	24.48	-2.13	22.35	<=30	Pass
		8	0	24.00	-2.13	21.87	<=30	Pass
			4	24.02	-2.13	21.89	<=30	Pass
			7	24.01	-2.13	21.88	<=30	Pass
		15	0	24.01	-2.13	21.88	<=30	Pass
16QAM	1711.5	1	0	24.12	-2.13	21.99	<=30	Pass
			7	23.97	-2.13	21.84	<=30	Pass
			14	23.95	-2.13	21.82	<=30	Pass
		8	0	23.05	-2.13	20.92	<=30	Pass
			4	23.06	-2.13	20.93	<=30	Pass
			7	23.06	-2.13	20.93	<=30	Pass
		15	0	23.03	-2.13	20.90	<=30	Pass
	1732.5	1	0	23.70	-2.13	21.57	<=30	Pass
			7	23.71	-2.13	21.58	<=30	Pass
			14	23.65	-2.13	21.52	<=30	Pass
		8	0	23.01	-2.13	20.88	<=30	Pass
			4	22.97	-2.13	20.84	<=30	Pass
			7	22.97	-2.13	20.84	<=30	Pass
		15	0	22.94	-2.13	20.81	<=30	Pass
	1753.5	1	0	24.05	-2.13	21.92	<=30	Pass
			7	24.10	-2.13	21.97	<=30	Pass
			14	24.06	-2.13	21.93	<=30	Pass
		8	0	23.18	-2.13	21.05	<=30	Pass
			4	23.18	-2.13	21.05	<=30	Pass
			7	23.16	-2.13	21.03	<=30	Pass
		15	0	23.10	-2.13	20.97	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	25.15	-2.13	23.02	<=30	Pass
			13	24.78	-2.13	22.65	<=30	Pass
			24	24.60	-2.13	22.47	<=30	Pass
		12	0	24.01	-2.13	21.88	<=30	Pass
			6	24.01	-2.13	21.88	<=30	Pass
			13	24.00	-2.13	21.87	<=30	Pass
		25	0	24.01	-2.13	21.88	<=30	Pass
	1732.5	1	0	24.59	-2.13	22.46	<=30	Pass
			13	24.59	-2.13	22.46	<=30	Pass
			24	24.61	-2.13	22.48	<=30	Pass
		12	0	24.02	-2.13	21.89	<=30	Pass
			6	24.04	-2.13	21.91	<=30	Pass
			13	24.04	-2.13	21.91	<=30	Pass
		25	0	24.06	-2.13	21.93	<=30	Pass
	1752.5	1	0	24.59	-2.13	22.46	<=30	Pass
			13	24.61	-2.13	22.48	<=30	Pass
			24	24.67	-2.13	22.54	<=30	Pass
		12	0	24.08	-2.13	21.95	<=30	Pass
			6	24.07	-2.13	21.94	<=30	Pass
			13	24.02	-2.13	21.89	<=30	Pass
		25	0	24.05	-2.13	21.92	<=30	Pass
16QAM	1712.5	1	0	23.69	-2.13	21.56	<=30	Pass
			13	23.61	-2.13	21.48	<=30	Pass
			24	23.65	-2.13	21.52	<=30	Pass
		12	0	22.98	-2.13	20.85	<=30	Pass
			6	22.96	-2.13	20.83	<=30	Pass
			13	22.96	-2.13	20.83	<=30	Pass
		25	0	23.03	-2.13	20.90	<=30	Pass
	1732.5	1	0	23.91	-2.13	21.78	<=30	Pass
			13	23.83	-2.13	21.70	<=30	Pass
			24	23.84	-2.13	21.71	<=30	Pass
		12	0	23.06	-2.13	20.93	<=30	Pass
			6	23.05	-2.13	20.92	<=30	Pass
			13	23.05	-2.13	20.92	<=30	Pass
		25	0	23.04	-2.13	20.91	<=30	Pass
	1752.5	1	0	23.36	-2.13	21.23	<=30	Pass
			13	23.37	-2.13	21.24	<=30	Pass
			24	23.45	-2.13	21.32	<=30	Pass
		12	0	23.05	-2.13	20.92	<=30	Pass
			6	23.02	-2.13	20.89	<=30	Pass
			13	22.97	-2.13	20.84	<=30	Pass
		25	0	23.10	-2.13	20.97	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	24.96	-2.13	22.83	<=30	Pass
			25	24.76	-2.13	22.63	<=30	Pass
			49	24.62	-2.13	22.49	<=30	Pass
		25	0	24.01	-2.13	21.88	<=30	Pass
			13	24.05	-2.13	21.92	<=30	Pass
			25	24.01	-2.13	21.88	<=30	Pass
		50	0	24.03	-2.13	21.90	<=30	Pass
	1732.5	1	0	24.54	-2.13	22.41	<=30	Pass
			25	24.55	-2.13	22.42	<=30	Pass
			49	24.48	-2.13	22.35	<=30	Pass
		25	0	24.01	-2.13	21.88	<=30	Pass
			13	24.06	-2.13	21.93	<=30	Pass
			25	24.04	-2.13	21.91	<=30	Pass
		50	0	24.10	-2.13	21.97	<=30	Pass
	1750	1	0	24.45	-2.13	22.32	<=30	Pass
			25	24.50	-2.13	22.37	<=30	Pass
			49	24.53	-2.13	22.40	<=30	Pass
		25	0	24.03	-2.13	21.90	<=30	Pass
			13	24.03	-2.13	21.90	<=30	Pass
			25	24.00	-2.13	21.87	<=30	Pass
		50	0	24.06	-2.13	21.93	<=30	Pass
16QAM	1715	1	0	23.60	-2.13	21.47	<=30	Pass
			25	23.69	-2.13	21.56	<=30	Pass
			49	23.66	-2.13	21.53	<=30	Pass
		25	0	23.06	-2.13	20.93	<=30	Pass
			13	23.10	-2.13	20.97	<=30	Pass
			25	23.09	-2.13	20.96	<=30	Pass
		50	0	23.03	-2.13	20.90	<=30	Pass
	1732.5	1	0	23.75	-2.13	21.62	<=30	Pass
			25	23.74	-2.13	21.61	<=30	Pass
			49	23.69	-2.13	21.56	<=30	Pass
		25	0	23.05	-2.13	20.92	<=30	Pass
			13	23.08	-2.13	20.95	<=30	Pass
			25	23.08	-2.13	20.95	<=30	Pass
		50	0	23.04	-2.13	20.91	<=30	Pass
	1750	1	0	24.06	-2.13	21.93	<=30	Pass
			25	24.07	-2.13	21.94	<=30	Pass
			49	24.11	-2.13	21.98	<=30	Pass
		25	0	23.09	-2.13	20.96	<=30	Pass
			13	23.04	-2.13	20.91	<=30	Pass
			25	23.03	-2.13	20.90	<=30	Pass
		50	0	23.04	-2.13	20.91	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	24.78	-2.13	22.65	<=30	Pass
			38	24.47	-2.13	22.34	<=30	Pass
			74	24.45	-2.13	22.32	<=30	Pass
		36	0	23.98	-2.13	21.85	<=30	Pass
			18	24.05	-2.13	21.92	<=30	Pass
			39	24.03	-2.13	21.90	<=30	Pass
		75	0	24.04	-2.13	21.91	<=30	Pass
	1732.5	1	0	24.48	-2.13	22.35	<=30	Pass
			38	24.52	-2.13	22.39	<=30	Pass
			74	24.45	-2.13	22.32	<=30	Pass
		36	0	23.94	-2.13	21.81	<=30	Pass
			18	24.03	-2.13	21.90	<=30	Pass
			39	24.06	-2.13	21.93	<=30	Pass
		75	0	24.03	-2.13	21.90	<=30	Pass
	1747.5	1	0	24.43	-2.13	22.30	<=30	Pass
			38	24.44	-2.13	22.31	<=30	Pass
			74	24.46	-2.13	22.33	<=30	Pass
		36	0	23.99	-2.13	21.86	<=30	Pass
			18	23.95	-2.13	21.82	<=30	Pass
			39	23.93	-2.13	21.80	<=30	Pass
		75	0	23.98	-2.13	21.85	<=30	Pass
16QAM	1717.5	1	0	23.91	-2.13	21.78	<=30	Pass
			38	23.94	-2.13	21.81	<=30	Pass
			74	23.89	-2.13	21.76	<=30	Pass
		36	0	23.01	-2.13	20.88	<=30	Pass
			18	23.04	-2.13	20.91	<=30	Pass
			39	23.01	-2.13	20.88	<=30	Pass
		75	0	22.99	-2.13	20.86	<=30	Pass
	1732.5	1	0	23.65	-2.13	21.52	<=30	Pass
			38	23.71	-2.13	21.58	<=30	Pass
			74	23.61	-2.13	21.48	<=30	Pass
		36	0	23.00	-2.13	20.87	<=30	Pass
			18	23.02	-2.13	20.89	<=30	Pass
			39	23.09	-2.13	20.96	<=30	Pass
		75	0	23.03	-2.13	20.90	<=30	Pass
	1747.5	1	0	24.00	-2.13	21.87	<=30	Pass
			38	24.04	-2.13	21.91	<=30	Pass
			74	24.05	-2.13	21.92	<=30	Pass
		36	0	23.02	-2.13	20.89	<=30	Pass
			18	23.02	-2.13	20.89	<=30	Pass
			39	22.97	-2.13	20.84	<=30	Pass
		75	0	22.99	-2.13	20.86	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	25.00	-2.13	22.87	<=30	Pass
			50	25.11	-2.13	22.98	<=30	Pass
			99	24.82	-2.13	22.69	<=30	Pass
		50	0	24.05	-2.13	21.92	<=30	Pass
			25	24.08	-2.13	21.95	<=30	Pass
			50	24.05	-2.13	21.92	<=30	Pass
		100	0	24.05	-2.13	21.92	<=30	Pass
	1732.5	1	0	24.41	-2.13	22.28	<=30	Pass
			50	24.57	-2.13	22.44	<=30	Pass
			99	24.45	-2.13	22.32	<=30	Pass
		50	0	23.97	-2.13	21.84	<=30	Pass
			25	24.03	-2.13	21.90	<=30	Pass
			50	24.14	-2.13	22.01	<=30	Pass
		100	0	24.07	-2.13	21.94	<=30	Pass
	1745	1	0	24.46	-2.13	22.33	<=30	Pass
			50	24.51	-2.13	22.38	<=30	Pass
			99	24.51	-2.13	22.38	<=30	Pass
		50	0	23.94	-2.13	21.81	<=30	Pass
			25	24.00	-2.13	21.87	<=30	Pass
			50	23.87	-2.13	21.74	<=30	Pass
		100	0	23.93	-2.13	21.80	<=30	Pass
16QAM	1720	1	0	24.07	-2.13	21.94	<=30	Pass
			50	24.13	-2.13	22.00	<=30	Pass
			99	24.08	-2.13	21.95	<=30	Pass
		50	0	23.01	-2.13	20.88	<=30	Pass
			25	23.03	-2.13	20.90	<=30	Pass
			50	23.04	-2.13	20.91	<=30	Pass
		100	0	23.03	-2.13	20.90	<=30	Pass
	1732.5	1	0	23.65	-2.13	21.52	<=30	Pass
			50	23.79	-2.13	21.66	<=30	Pass
			99	23.65	-2.13	21.52	<=30	Pass
		50	0	22.96	-2.13	20.83	<=30	Pass
			25	23.02	-2.13	20.89	<=30	Pass
			50	23.13	-2.13	21.00	<=30	Pass
		100	0	23.02	-2.13	20.89	<=30	Pass
	1745	1	0	23.76	-2.13	21.63	<=30	Pass
			50	23.81	-2.13	21.68	<=30	Pass
			99	23.82	-2.13	21.69	<=30	Pass
		50	0	22.92	-2.13	20.79	<=30	Pass
			25	22.99	-2.13	20.86	<=30	Pass
			50	22.82	-2.13	20.69	<=30	Pass
		100	0	22.92	-2.13	20.79	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 Test Result

2.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	3.27	-5.636	-0.0033	-2.5 to 2.5	Pass
					3.85	-11.544	-0.0067	-2.5 to 2.5	Pass
					4.43	25.063	0.0147	-2.5 to 2.5	Pass
				-30	3.85	0.043	0.0000	-2.5 to 2.5	Pass
				-20	3.85	0.629	0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
				0	3.85	6.180	0.0036	-2.5 to 2.5	Pass
				10	3.85	5.021	0.0029	-2.5 to 2.5	Pass
				30	3.85	8.855	0.0052	-2.5 to 2.5	Pass
				40	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass
				50	3.85	8.683	0.0051	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	8.554	0.0049	-2.5 to 2.5	Pass
					3.85	-9.227	-0.0053	-2.5 to 2.5	Pass
					4.43	2.246	0.0013	-2.5 to 2.5	Pass
				-30	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				-20	3.85	8.111	0.0047	-2.5 to 2.5	Pass
				-10	3.85	8.998	0.0052	-2.5 to 2.5	Pass
				0	3.85	11.473	0.0066	-2.5 to 2.5	Pass
				10	3.85	1.087	0.0006	-2.5 to 2.5	Pass
				30	3.85	9.985	0.0058	-2.5 to 2.5	Pass
				40	3.85	8.783	0.0051	-2.5 to 2.5	Pass
				50	3.85	4.892	0.0028	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	9.699	0.0055	-2.5 to 2.5	Pass
					3.85	7.925	0.0045	-2.5 to 2.5	Pass
					4.43	0.215	0.0001	-2.5 to 2.5	Pass
				-30	3.85	11.787	0.0067	-2.5 to 2.5	Pass
				-20	3.85	10.285	0.0059	-2.5 to 2.5	Pass
				-10	3.85	4.535	0.0026	-2.5 to 2.5	Pass
				0	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				10	3.85	1.688	0.0010	-2.5 to 2.5	Pass
				30	3.85	-1.001	-0.0006	-2.5 to 2.5	Pass
				40	3.85	1.702	0.0010	-2.5 to 2.5	Pass
				50	3.85	1.402	0.0008	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-6.437	-0.0038	-2.5 to 2.5	Pass
					3.85	-8.798	-0.0051	-2.5 to 2.5	Pass
					4.43	-3.161	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	0.973	0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				-10	3.85	3.476	0.0020	-2.5 to 2.5	Pass
				0	3.85	2.589	0.0015	-2.5 to 2.5	Pass
				10	3.85	0.930	0.0005	-2.5 to 2.5	Pass
				30	3.85	0.429	0.0003	-2.5 to 2.5	Pass
				40	3.85	7.696	0.0045	-2.5 to 2.5	Pass
				50	3.85	-6.180	-0.0036	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	12.889	0.0074	-2.5 to 2.5	Pass
					3.85	10.715	0.0062	-2.5 to 2.5	Pass
					4.43	-7.181	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-3.076	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-3.591	-0.0021	-2.5 to 2.5	Pass

				0	3.85	-7.997	-0.0046	-2.5 to 2.5	Pass
				10	3.85	-2.847	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-3.190	-0.0018	-2.5 to 2.5	Pass
				40	3.85	0.672	0.0004	-2.5 to 2.5	Pass
				50	3.85	-1.559	-0.0009	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	9.699	0.0055	-2.5 to 2.5	Pass
					3.85	4.864	0.0028	-2.5 to 2.5	Pass
					4.43	-3.705	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	4.735	0.0027	-2.5 to 2.5	Pass
				-20	3.85	7.939	0.0045	-2.5 to 2.5	Pass
				-10	3.85	6.809	0.0039	-2.5 to 2.5	Pass
				0	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				10	3.85	-4.849	-0.0028	-2.5 to 2.5	Pass
				30	3.85	8.698	0.0050	-2.5 to 2.5	Pass
				40	3.85	2.732	0.0016	-2.5 to 2.5	Pass
				50	3.85	-6.223	-0.0035	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.27	-7.381	-0.0043	-2.5 to 2.5	Pass
					3.85	2.031	0.0012	-2.5 to 2.5	Pass
					4.43	-4.835	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	6.151	0.0036	-2.5 to 2.5	Pass
				-20	3.85	11.086	0.0065	-2.5 to 2.5	Pass
				-10	3.85	-3.562	-0.0021	-2.5 to 2.5	Pass
				0	3.85	1.745	0.0010	-2.5 to 2.5	Pass
				10	3.85	-1.917	-0.0011	-2.5 to 2.5	Pass
				30	3.85	13.390	0.0078	-2.5 to 2.5	Pass
				40	3.85	8.683	0.0051	-2.5 to 2.5	Pass
				50	3.85	9.913	0.0058	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	10.242	0.0059	-2.5 to 2.5	Pass
					3.85	0.143	0.0001	-2.5 to 2.5	Pass
					4.43	13.990	0.0081	-2.5 to 2.5	Pass
				-30	3.85	2.403	0.0014	-2.5 to 2.5	Pass
				-20	3.85	1.101	0.0006	-2.5 to 2.5	Pass
				-10	3.85	2.947	0.0017	-2.5 to 2.5	Pass
				0	3.85	-4.764	-0.0027	-2.5 to 2.5	Pass
				10	3.85	13.146	0.0076	-2.5 to 2.5	Pass
				30	3.85	3.533	0.0020	-2.5 to 2.5	Pass
				40	3.85	5.951	0.0034	-2.5 to 2.5	Pass
				50	3.85	10.300	0.0059	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-6.895	-0.0039	-2.5 to 2.5	Pass
					3.85	-0.701	-0.0004	-2.5 to 2.5	Pass
					4.43	-2.689	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	3.204	0.0018	-2.5 to 2.5	Pass
				-20	3.85	1.245	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-5.379	-0.0031	-2.5 to 2.5	Pass
				0	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
				30	3.85	4.821	0.0027	-2.5 to 2.5	Pass
				40	3.85	-1.073	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.687	-0.0004	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-1.931	-0.0011	-2.5 to 2.5	Pass
					3.85	-11.072	-0.0065	-2.5 to 2.5	Pass
					4.43	8.540	0.0050	-2.5 to 2.5	Pass

				-30	3.85	3.018	0.0018	-2.5 to 2.5	Pass
				-20	3.85	1.116	0.0007	-2.5 to 2.5	Pass
				-10	3.85	0.672	0.0004	-2.5 to 2.5	Pass
				0	3.85	2.332	0.0014	-2.5 to 2.5	Pass
				10	3.85	0.944	0.0006	-2.5 to 2.5	Pass
				30	3.85	-7.467	-0.0044	-2.5 to 2.5	Pass
				40	3.85	-5.994	-0.0035	-2.5 to 2.5	Pass
				50	3.85	3.719	0.0022	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-4.792	-0.0028	-2.5 to 2.5	Pass
					3.85	7.610	0.0044	-2.5 to 2.5	Pass
					4.43	-10.729	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	6.766	0.0039	-2.5 to 2.5	Pass
				-20	3.85	4.048	0.0023	-2.5 to 2.5	Pass
				-10	3.85	0.844	0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.458	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-7.510	-0.0043	-2.5 to 2.5	Pass
				30	3.85	2.847	0.0016	-2.5 to 2.5	Pass
				40	3.85	-3.390	-0.0020	-2.5 to 2.5	Pass
				50	3.85	7.324	0.0042	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-0.200	-0.0001	-2.5 to 2.5	Pass
					3.85	2.389	0.0014	-2.5 to 2.5	Pass
					4.43	-3.276	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	2.875	0.0016	-2.5 to 2.5	Pass
				-20	3.85	6.123	0.0035	-2.5 to 2.5	Pass
				-10	3.85	2.589	0.0015	-2.5 to 2.5	Pass
				0	3.85	-2.546	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-6.151	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-9.685	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-5.236	-0.0030	-2.5 to 2.5	Pass
				50	3.85	15.035	0.0086	-2.5 to 2.5	Pass

2.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.27	5.980	0.0035	-2.5 to 2.5	Pass
					3.85	2.804	0.0016	-2.5 to 2.5	Pass
					4.43	-1.316	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	4.263	0.0025	-2.5 to 2.5	Pass
				-20	3.85	11.344	0.0066	-2.5 to 2.5	Pass
				-10	3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
				0	3.85	2.432	0.0014	-2.5 to 2.5	Pass
				10	3.85	5.608	0.0033	-2.5 to 2.5	Pass
				30	3.85	9.956	0.0058	-2.5 to 2.5	Pass
				40	3.85	4.334	0.0025	-2.5 to 2.5	Pass
				50	3.85	2.975	0.0017	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	3.633	0.0021	-2.5 to 2.5	Pass
					3.85	1.402	0.0008	-2.5 to 2.5	Pass
					4.43	-5.479	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	1.101	0.0006	-2.5 to 2.5	Pass
				-20	3.85	-7.238	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-1.101	-0.0006	-2.5 to 2.5	Pass
				0	3.85	2.761	0.0016	-2.5 to 2.5	Pass
				10	3.85	6.495	0.0037	-2.5 to 2.5	Pass
				30	3.85	3.376	0.0019	-2.5 to 2.5	Pass
				40	3.85	5.336	0.0031	-2.5 to 2.5	Pass
				50	3.85	7.081	0.0041	-2.5 to 2.5	Pass

	1752.5	25	0	20	3.27	-9.027	-0.0052	-2.5 to 2.5	Pass
					3.85	2.632	0.0015	-2.5 to 2.5	Pass
					4.43	-0.916	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	6.223	0.0036	-2.5 to 2.5	Pass
				0	3.85	0.186	0.0001	-2.5 to 2.5	Pass
				10	3.85	-1.287	-0.0007	-2.5 to 2.5	Pass
				30	3.85	4.492	0.0026	-2.5 to 2.5	Pass
				40	3.85	-10.400	-0.0059	-2.5 to 2.5	Pass
				50	3.85	4.449	0.0025	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	4.692	0.0027	-2.5 to 2.5	Pass
					3.85	-2.589	-0.0015	-2.5 to 2.5	Pass
					4.43	7.453	0.0044	-2.5 to 2.5	Pass
				-30	3.85	14.091	0.0082	-2.5 to 2.5	Pass
				-20	3.85	1.831	0.0011	-2.5 to 2.5	Pass
				-10	3.85	0.930	0.0005	-2.5 to 2.5	Pass
				0	3.85	5.679	0.0033	-2.5 to 2.5	Pass
				10	3.85	11.687	0.0068	-2.5 to 2.5	Pass
				30	3.85	12.617	0.0074	-2.5 to 2.5	Pass
				40	3.85	5.822	0.0034	-2.5 to 2.5	Pass
				50	3.85	7.510	0.0044	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	7.167	0.0041	-2.5 to 2.5	Pass
					3.85	6.437	0.0037	-2.5 to 2.5	Pass
					4.43	13.146	0.0076	-2.5 to 2.5	Pass
				-30	3.85	8.383	0.0048	-2.5 to 2.5	Pass
				-20	3.85	-4.148	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	2.604	0.0015	-2.5 to 2.5	Pass
				0	3.85	-1.087	-0.0006	-2.5 to 2.5	Pass
				10	3.85	1.259	0.0007	-2.5 to 2.5	Pass
				30	3.85	11.430	0.0066	-2.5 to 2.5	Pass
				40	3.85	4.177	0.0024	-2.5 to 2.5	Pass
				50	3.85	11.659	0.0067	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-2.332	-0.0013	-2.5 to 2.5	Pass
					3.85	-2.146	-0.0012	-2.5 to 2.5	Pass
					4.43	3.963	0.0023	-2.5 to 2.5	Pass
				-30	3.85	3.662	0.0021	-2.5 to 2.5	Pass
				-20	3.85	-0.343	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	3.390	0.0019	-2.5 to 2.5	Pass
				0	3.85	-4.406	-0.0025	-2.5 to 2.5	Pass
				10	3.85	8.283	0.0047	-2.5 to 2.5	Pass
				30	3.85	7.610	0.0043	-2.5 to 2.5	Pass
				40	3.85	5.550	0.0032	-2.5 to 2.5	Pass
				50	3.85	4.764	0.0027	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.27	2.246	0.0013	-2.5 to 2.5	Pass
					3.85	-2.046	-0.0012	-2.5 to 2.5	Pass
					4.43	2.260	0.0013	-2.5 to 2.5	Pass
				-30	3.85	3.319	0.0019	-2.5 to 2.5	Pass
				-20	3.85	4.005	0.0023	-2.5 to 2.5	Pass
				-10	3.85	-0.658	-0.0004	-2.5 to 2.5	Pass
				0	3.85	3.862	0.0023	-2.5 to 2.5	Pass
				10	3.85	1.717	0.0010	-2.5 to 2.5	Pass

				30	3.85	2.317	0.0014	-2.5 to 2.5	Pass
				40	3.85	0.758	0.0004	-2.5 to 2.5	Pass
				50	3.85	7.496	0.0044	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-1.702	-0.0010	-2.5 to 2.5	Pass
					3.85	-2.031	-0.0012	-2.5 to 2.5	Pass
					4.43	0.544	0.0003	-2.5 to 2.5	Pass
				-30	3.85	3.061	0.0018	-2.5 to 2.5	Pass
				-20	3.85	0.572	0.0003	-2.5 to 2.5	Pass
				-10	3.85	1.245	0.0007	-2.5 to 2.5	Pass
				0	3.85	5.393	0.0031	-2.5 to 2.5	Pass
				10	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-1.545	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-3.791	-0.0022	-2.5 to 2.5	Pass
				50	3.85	0.701	0.0004	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	5.007	0.0029	-2.5 to 2.5	Pass
					3.85	5.894	0.0034	-2.5 to 2.5	Pass
					4.43	0.000	0.0000	-2.5 to 2.5	Pass
				-30	3.85	7.753	0.0044	-2.5 to 2.5	Pass
				-20	3.85	7.625	0.0044	-2.5 to 2.5	Pass
				-10	3.85	10.300	0.0059	-2.5 to 2.5	Pass
				0	3.85	3.963	0.0023	-2.5 to 2.5	Pass
				10	3.85	8.941	0.0051	-2.5 to 2.5	Pass
				30	3.85	7.567	0.0043	-2.5 to 2.5	Pass
				40	3.85	4.420	0.0025	-2.5 to 2.5	Pass
				50	3.85	2.975	0.0017	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	3.033	0.0018	-2.5 to 2.5	Pass
					3.85	5.350	0.0031	-2.5 to 2.5	Pass
					4.43	9.413	0.0055	-2.5 to 2.5	Pass
				-30	3.85	7.038	0.0041	-2.5 to 2.5	Pass
				-20	3.85	7.710	0.0045	-2.5 to 2.5	Pass
				-10	3.85	3.076	0.0018	-2.5 to 2.5	Pass
				0	3.85	9.770	0.0057	-2.5 to 2.5	Pass
				10	3.85	9.527	0.0056	-2.5 to 2.5	Pass
				30	3.85	5.422	0.0032	-2.5 to 2.5	Pass
				40	3.85	5.894	0.0034	-2.5 to 2.5	Pass
				50	3.85	4.864	0.0028	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-4.592	-0.0027	-2.5 to 2.5	Pass
					3.85	0.515	0.0003	-2.5 to 2.5	Pass
					4.43	-5.550	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-0.629	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	1.674	0.0010	-2.5 to 2.5	Pass
				-10	3.85	3.834	0.0022	-2.5 to 2.5	Pass
				0	3.85	2.875	0.0017	-2.5 to 2.5	Pass
				10	3.85	2.761	0.0016	-2.5 to 2.5	Pass
				30	3.85	-0.701	-0.0004	-2.5 to 2.5	Pass
				40	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				50	3.85	7.224	0.0042	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	4.048	0.0023	-2.5 to 2.5	Pass
					3.85	6.952	0.0040	-2.5 to 2.5	Pass
					4.43	5.937	0.0034	-2.5 to 2.5	Pass
				-30	3.85	-2.661	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	9.313	0.0053	-2.5 to 2.5	Pass
				-10	3.85	5.064	0.0029	-2.5 to 2.5	Pass
				0	3.85	10.014	0.0057	-2.5 to 2.5	Pass
				10	3.85	6.709	0.0038	-2.5 to 2.5	Pass
				30	3.85	2.975	0.0017	-2.5 to 2.5	Pass
				40	3.85	10.643	0.0061	-2.5 to 2.5	Pass
				50	3.85	1.831	0.0010	-2.5 to 2.5	Pass

2.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.27	-0.243	-0.0001	-2.5 to 2.5	Pass
					3.85	-4.835	-0.0028	-2.5 to 2.5	Pass
					4.43	2.704	0.0016	-2.5 to 2.5	Pass
				-30	3.85	2.403	0.0014	-2.5 to 2.5	Pass
				-20	3.85	5.436	0.0032	-2.5 to 2.5	Pass
				-10	3.85	-0.658	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
				10	3.85	2.403	0.0014	-2.5 to 2.5	Pass
				30	3.85	3.934	0.0023	-2.5 to 2.5	Pass
				40	3.85	8.082	0.0047	-2.5 to 2.5	Pass
				50	3.85	3.562	0.0021	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-5.636	-0.0033	-2.5 to 2.5	Pass
					3.85	-0.701	-0.0004	-2.5 to 2.5	Pass
					4.43	-2.961	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-4.048	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-3.576	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-4.592	-0.0027	-2.5 to 2.5	Pass
				0	3.85	0.672	0.0004	-2.5 to 2.5	Pass
				10	3.85	0.143	0.0001	-2.5 to 2.5	Pass
				30	3.85	1.230	0.0007	-2.5 to 2.5	Pass
				40	3.85	2.818	0.0016	-2.5 to 2.5	Pass
				50	3.85	-3.376	-0.0019	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	4.048	0.0023	-2.5 to 2.5	Pass
					3.85	7.396	0.0042	-2.5 to 2.5	Pass
					4.43	1.559	0.0009	-2.5 to 2.5	Pass
				-30	3.85	6.938	0.0040	-2.5 to 2.5	Pass
				-20	3.85	6.394	0.0037	-2.5 to 2.5	Pass
				-10	3.85	14.005	0.0080	-2.5 to 2.5	Pass
				0	3.85	3.891	0.0022	-2.5 to 2.5	Pass
				10	3.85	9.398	0.0054	-2.5 to 2.5	Pass
				30	3.85	5.808	0.0033	-2.5 to 2.5	Pass
				40	3.85	6.509	0.0037	-2.5 to 2.5	Pass
				50	3.85	7.024	0.0040	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	0.486	0.0003	-2.5 to 2.5	Pass
					3.85	3.490	0.0020	-2.5 to 2.5	Pass
					4.43	1.001	0.0006	-2.5 to 2.5	Pass
				-30	3.85	6.223	0.0036	-2.5 to 2.5	Pass
				-20	3.85	-3.090	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	5.035	0.0029	-2.5 to 2.5	Pass
				0	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				10	3.85	4.449	0.0026	-2.5 to 2.5	Pass
				30	3.85	2.818	0.0016	-2.5 to 2.5	Pass
				40	3.85	2.360	0.0014	-2.5 to 2.5	Pass
				50	3.85	0.415	0.0002	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	0.229	0.0001	-2.5 to 2.5	Pass
					3.85	2.217	0.0013	-2.5 to 2.5	Pass
					4.43	-0.458	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.873	0.0005	-2.5 to 2.5	Pass
				-20	3.85	1.245	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-2.017	-0.0012	-2.5 to 2.5	Pass
				0	3.85	0.086	0.0000	-2.5 to 2.5	Pass
				10	3.85	0.072	0.0000	-2.5 to 2.5	Pass
				30	3.85	-2.074	-0.0012	-2.5 to 2.5	Pass
				40	3.85	0.329	0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.186	-0.0001	-2.5 to 2.5	Pass

	1747.5	75	0	20	3.27	6.809	0.0039	-2.5 to 2.5	Pass
					3.85	4.706	0.0027	-2.5 to 2.5	Pass
					4.43	3.805	0.0022	-2.5 to 2.5	Pass
				-30	3.85	2.446	0.0014	-2.5 to 2.5	Pass
				-20	3.85	7.567	0.0043	-2.5 to 2.5	Pass
				-10	3.85	8.683	0.0050	-2.5 to 2.5	Pass
				0	3.85	5.450	0.0031	-2.5 to 2.5	Pass
				10	3.85	0.486	0.0003	-2.5 to 2.5	Pass
				30	3.85	6.495	0.0037	-2.5 to 2.5	Pass
				40	3.85	1.602	0.0009	-2.5 to 2.5	Pass
				50	3.85	9.370	0.0054	-2.5 to 2.5	Pass

2.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.27	5.622	0.0033	-2.5 to 2.5	Pass
					3.85	-2.275	-0.0013	-2.5 to 2.5	Pass
					4.43	-1.144	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-1.602	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-1.788	-0.0010	-2.5 to 2.5	Pass
				0	3.85	6.552	0.0038	-2.5 to 2.5	Pass
				10	3.85	4.520	0.0026	-2.5 to 2.5	Pass
				30	3.85	6.108	0.0036	-2.5 to 2.5	Pass
				40	3.85	0.601	0.0003	-2.5 to 2.5	Pass
				50	3.85	6.008	0.0035	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	5.436	0.0031	-2.5 to 2.5	Pass
					3.85	0.229	0.0001	-2.5 to 2.5	Pass
					4.43	6.237	0.0036	-2.5 to 2.5	Pass
				-30	3.85	2.518	0.0015	-2.5 to 2.5	Pass
				-20	3.85	1.802	0.0010	-2.5 to 2.5	Pass
				-10	3.85	3.676	0.0021	-2.5 to 2.5	Pass
				0	3.85	-1.173	-0.0007	-2.5 to 2.5	Pass
				10	3.85	1.273	0.0007	-2.5 to 2.5	Pass
				30	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-2.031	-0.0012	-2.5 to 2.5	Pass
				50	3.85	5.250	0.0030	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-1.030	-0.0006	-2.5 to 2.5	Pass
					3.85	-5.379	-0.0031	-2.5 to 2.5	Pass
					4.43	-0.644	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.901	0.0005	-2.5 to 2.5	Pass
				-20	3.85	2.761	0.0016	-2.5 to 2.5	Pass
				-10	3.85	-5.150	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-1.030	-0.0006	-2.5 to 2.5	Pass
				10	3.85	1.273	0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.973	-0.0006	-2.5 to 2.5	Pass
				40	3.85	0.086	0.0000	-2.5 to 2.5	Pass
				50	3.85	6.351	0.0036	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-1.688	-0.0010	-2.5 to 2.5	Pass
					3.85	-0.358	-0.0002	-2.5 to 2.5	Pass
					4.43	-2.089	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				-20	3.85	2.832	0.0016	-2.5 to 2.5	Pass
				-10	3.85	2.060	0.0012	-2.5 to 2.5	Pass
				0	3.85	5.007	0.0029	-2.5 to 2.5	Pass
				10	3.85	3.805	0.0022	-2.5 to 2.5	Pass

				30	3.85	1.645	0.0010	-2.5 to 2.5	Pass
				40	3.85	3.877	0.0023	-2.5 to 2.5	Pass
				50	3.85	6.623	0.0039	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	4.535	0.0026	-2.5 to 2.5	Pass
					3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
					4.43	2.203	0.0013	-2.5 to 2.5	Pass
				-30	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	4.678	0.0027	-2.5 to 2.5	Pass
				-10	3.85	1.402	0.0008	-2.5 to 2.5	Pass
				0	3.85	-0.300	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-1.030	-0.0006	-2.5 to 2.5	Pass
				30	3.85	2.947	0.0017	-2.5 to 2.5	Pass
				40	3.85	0.472	0.0003	-2.5 to 2.5	Pass
				50	3.85	1.473	0.0009	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-2.203	-0.0013	-2.5 to 2.5	Pass
					3.85	-3.819	-0.0022	-2.5 to 2.5	Pass
					4.43	3.405	0.0020	-2.5 to 2.5	Pass
				-30	3.85	-1.459	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	5.622	0.0032	-2.5 to 2.5	Pass
				-10	3.85	0.973	0.0006	-2.5 to 2.5	Pass
				0	3.85	-0.830	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-1.230	-0.0007	-2.5 to 2.5	Pass
				30	3.85	1.173	0.0007	-2.5 to 2.5	Pass
				40	3.85	4.177	0.0024	-2.5 to 2.5	Pass
				50	3.85	0.472	0.0003	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

3.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

3.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

3.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

3.1.5 B4_15MHz

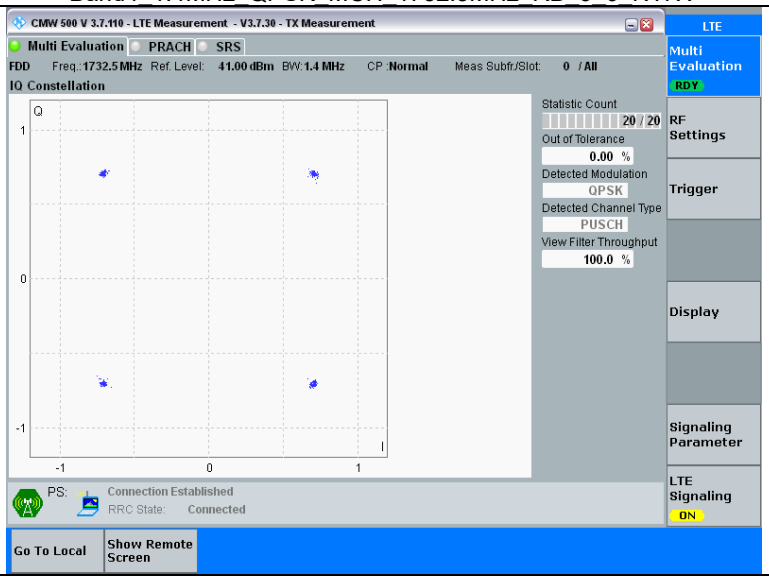
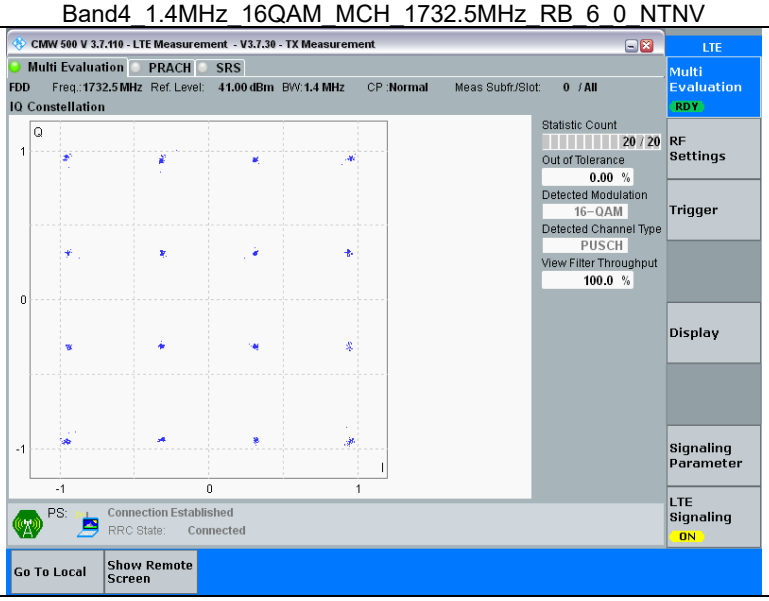
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

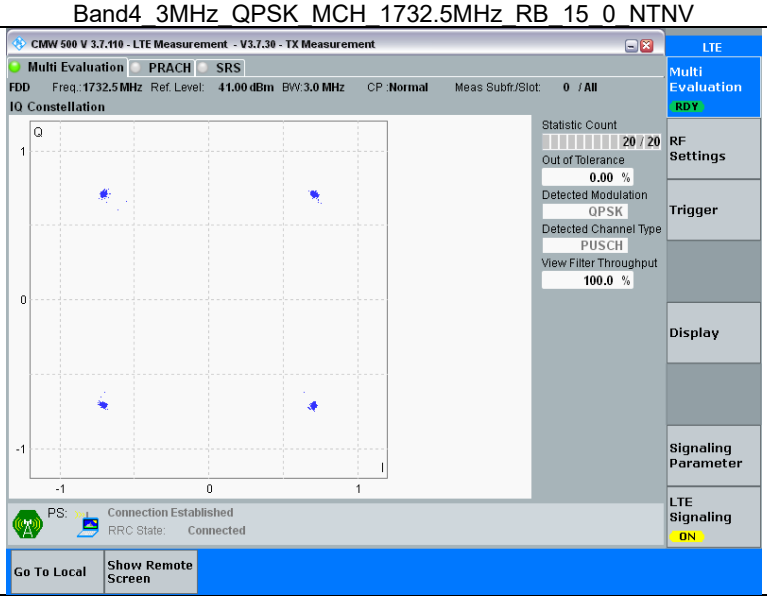
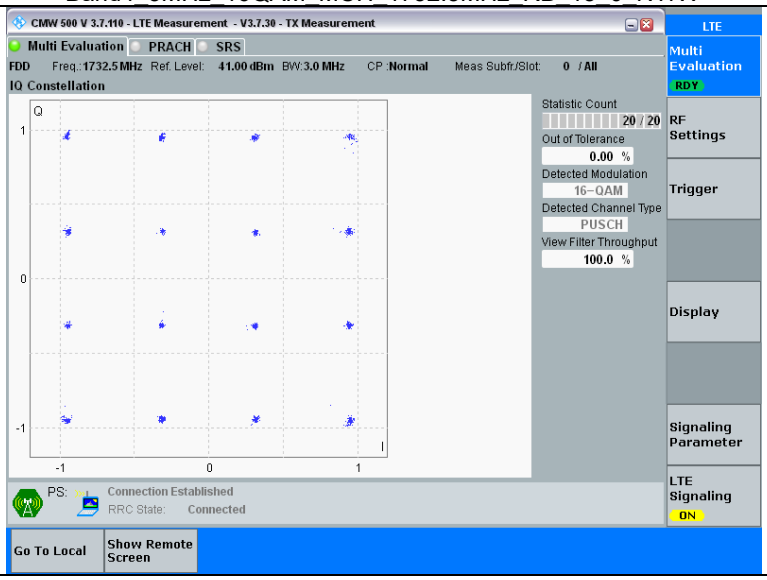
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

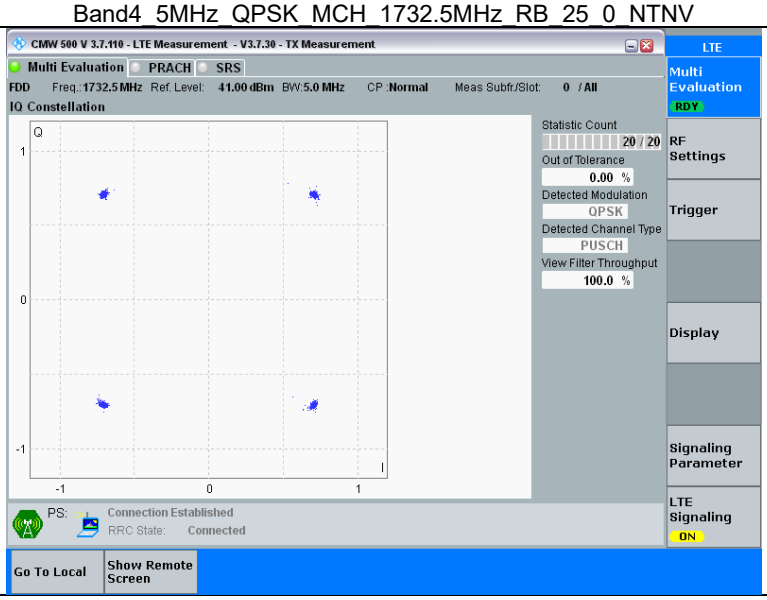
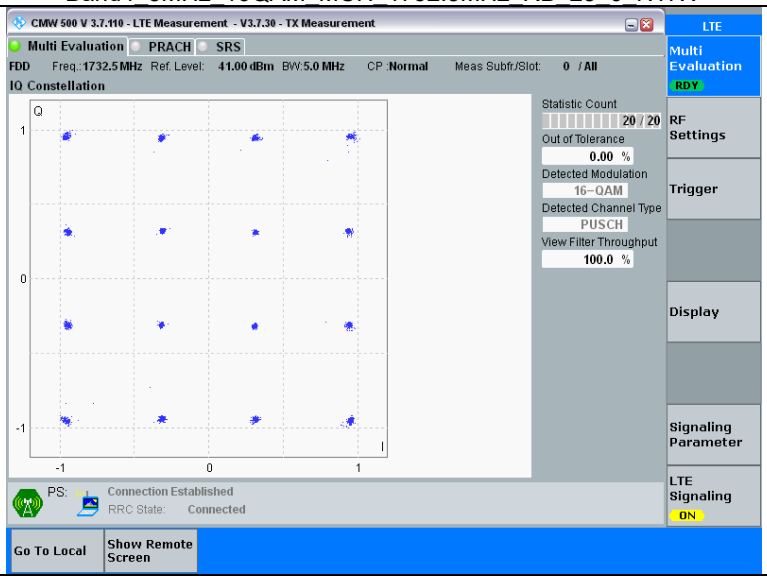
3.2.1 B4_1.4MHz

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV


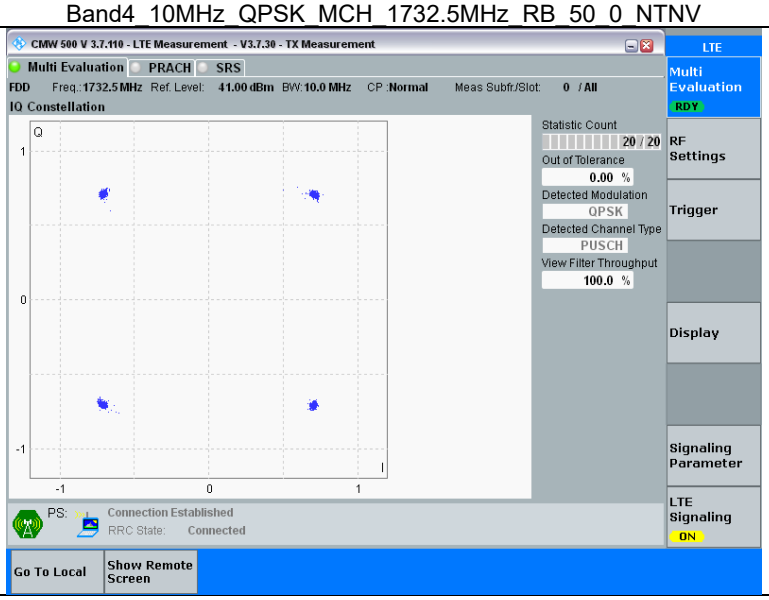
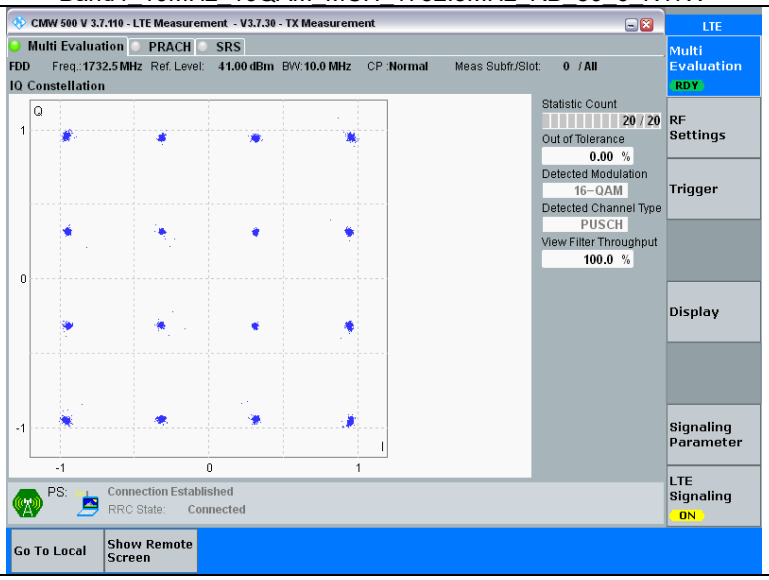
3.2.2 B4_3MHz

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV

Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV


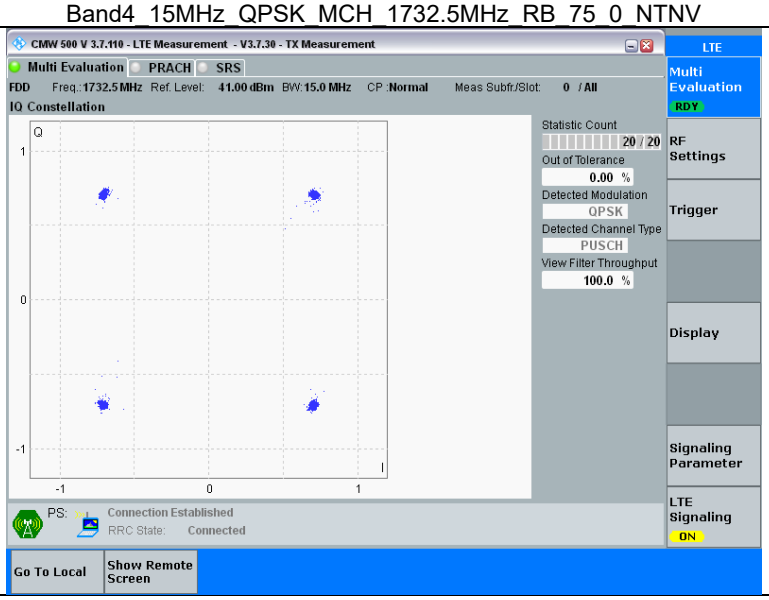
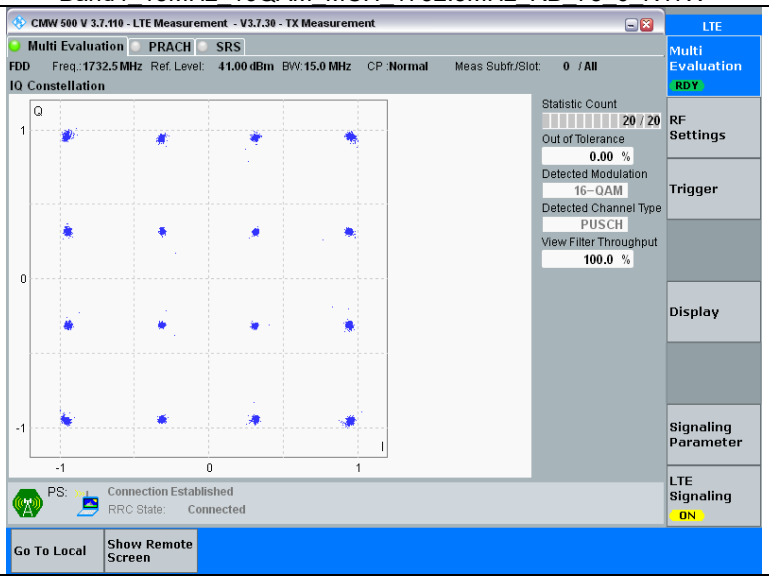
3.2.3 B4_5MHz

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV


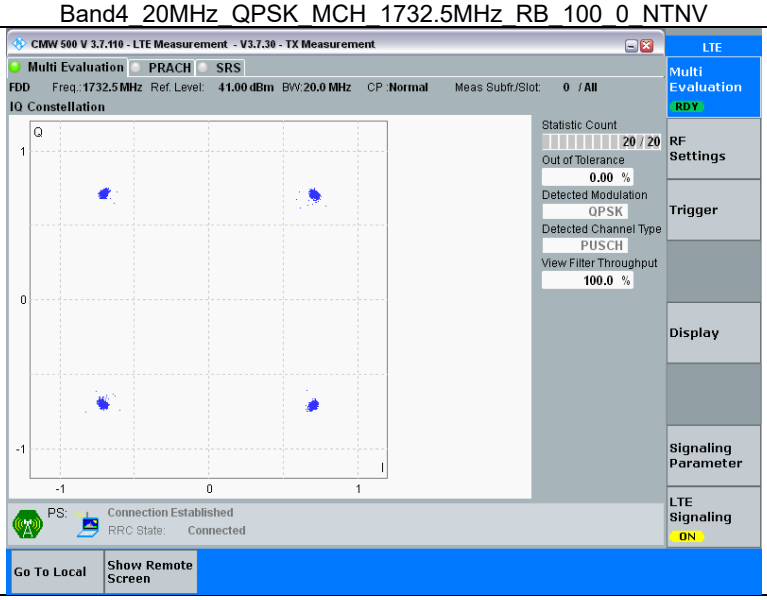
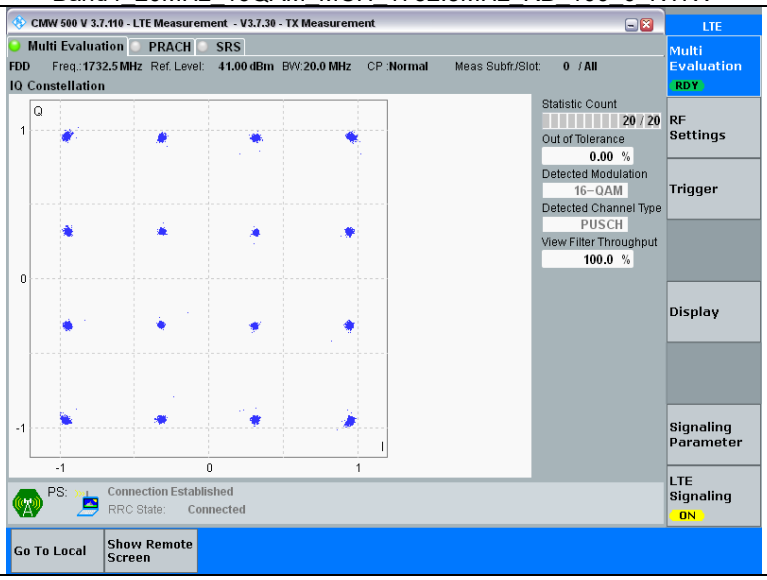
3.2.4 B4_10MHz

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV

Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV


3.2.5 B4_15MHz

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV

Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV


3.2.6 B4_20MHz

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV

Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV


4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.108	/	Pass
		1732.5	6	0	1.115	/	Pass
		1754.3	6	0	1.101	/	Pass
	16QAM	1710.7	6	0	1.111	/	Pass
		1732.5	6	0	1.110	/	Pass
		1754.3	6	0	1.101	/	Pass
3	QPSK	1711.5	15	0	2.737	/	Pass
		1732.5	15	0	2.738	/	Pass
		1753.5	15	0	2.735	/	Pass
	16QAM	1711.5	15	0	2.731	/	Pass
		1732.5	15	0	2.732	/	Pass
		1753.5	15	0	2.726	/	Pass
5	QPSK	1712.5	25	0	4.540	/	Pass
		1732.5	25	0	4.555	/	Pass
		1752.5	25	0	4.544	/	Pass
	16QAM	1712.5	25	0	4.532	/	Pass
		1732.5	25	0	4.557	/	Pass
		1752.5	25	0	4.537	/	Pass
10	QPSK	1715	50	0	9.064	/	Pass
		1732.5	50	0	9.036	/	Pass
		1750	50	0	9.066	/	Pass
	16QAM	1715	50	0	9.021	/	Pass
		1732.5	50	0	9.043	/	Pass
		1750	50	0	9.018	/	Pass
15	QPSK	1717.5	75	0	13.553	/	Pass
		1732.5	75	0	13.568	/	Pass
		1747.5	75	0	13.594	/	Pass
	16QAM	1717.5	75	0	13.600	/	Pass
		1732.5	75	0	13.571	/	Pass
		1747.5	75	0	13.612	/	Pass
20	QPSK	1720	100	0	18.104	/	Pass
		1732.5	100	0	18.062	/	Pass
		1745	100	0	18.054	/	Pass
	16QAM	1720	100	0	18.107	/	Pass
		1732.5	100	0	18.077	/	Pass
		1745	100	0	18.120	/	Pass

4.1.2 Band4_XDB

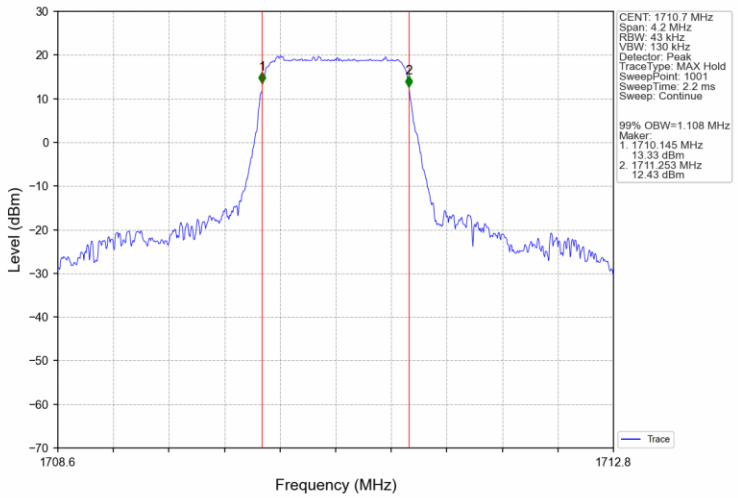
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.318	/	Pass
		1732.5	6	0	1.315	/	Pass
		1754.3	6	0	1.327	/	Pass

	16QAM	1710.7	6	0	1.318	/	Pass
		1732.5	6	0	1.332	/	Pass
		1754.3	6	0	1.301	/	Pass
3	QPSK	1711.5	15	0	3.019	/	Pass
		1732.5	15	0	2.994	/	Pass
		1753.5	15	0	3.027	/	Pass
	16QAM	1711.5	15	0	3.014	/	Pass
		1732.5	15	0	3.027	/	Pass
		1753.5	15	0	2.978	/	Pass
5	QPSK	1712.5	25	0	5.081	/	Pass
		1732.5	25	0	5.072	/	Pass
		1752.5	25	0	5.080	/	Pass
	16QAM	1712.5	25	0	5.073	/	Pass
		1732.5	25	0	5.017	/	Pass
		1752.5	25	0	5.022	/	Pass
10	QPSK	1715	50	0	9.935	/	Pass
		1732.5	50	0	9.995	/	Pass
		1750	50	0	9.979	/	Pass
	16QAM	1715	50	0	9.957	/	Pass
		1732.5	50	0	9.905	/	Pass
		1750	50	0	9.939	/	Pass
15	QPSK	1717.5	75	0	14.950	/	Pass
		1732.5	75	0	14.916	/	Pass
		1747.5	75	0	14.997	/	Pass
	16QAM	1717.5	75	0	14.942	/	Pass
		1732.5	75	0	14.938	/	Pass
		1747.5	75	0	14.959	/	Pass
20	QPSK	1720	100	0	19.655	/	Pass
		1732.5	100	0	19.612	/	Pass
		1745	100	0	19.690	/	Pass
	16QAM	1720	100	0	19.714	/	Pass
		1732.5	100	0	19.748	/	Pass
		1745	100	0	19.633	/	Pass

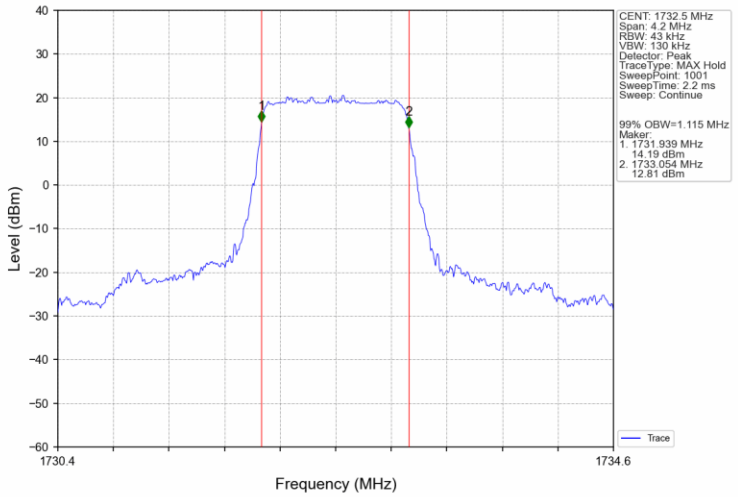
4.2 Test Graph

4.2.1 Band4_OBW

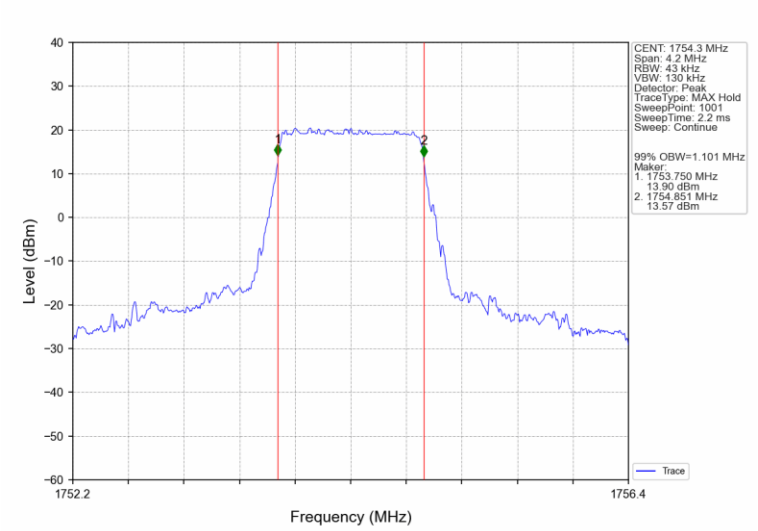
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



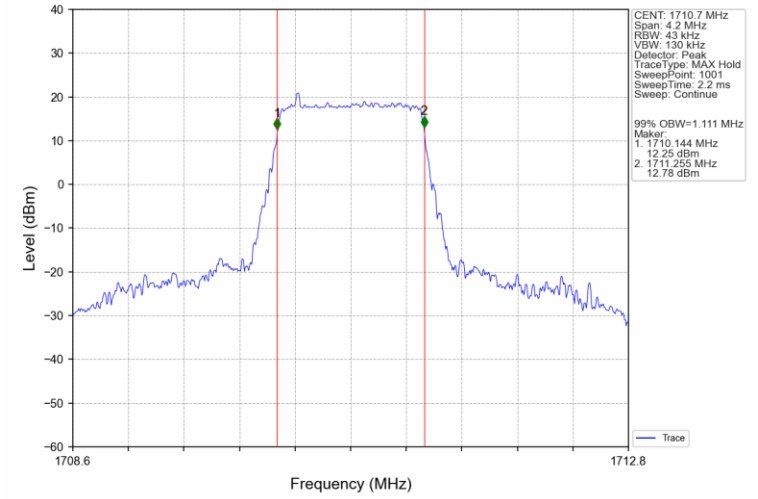
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



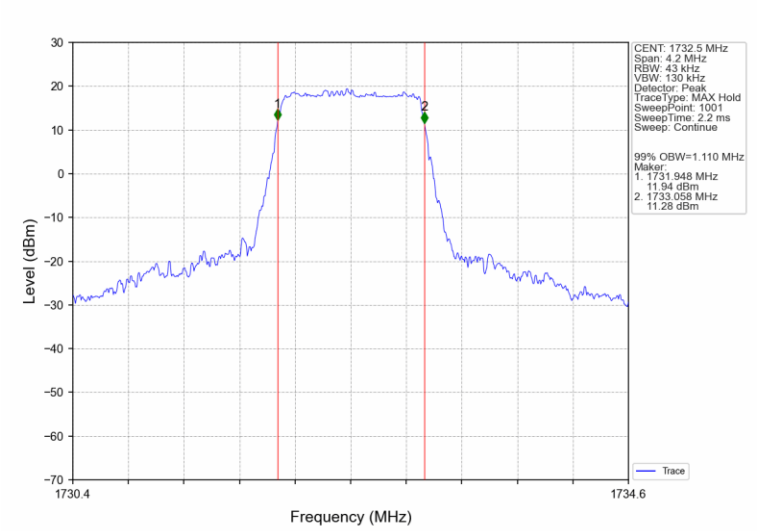
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



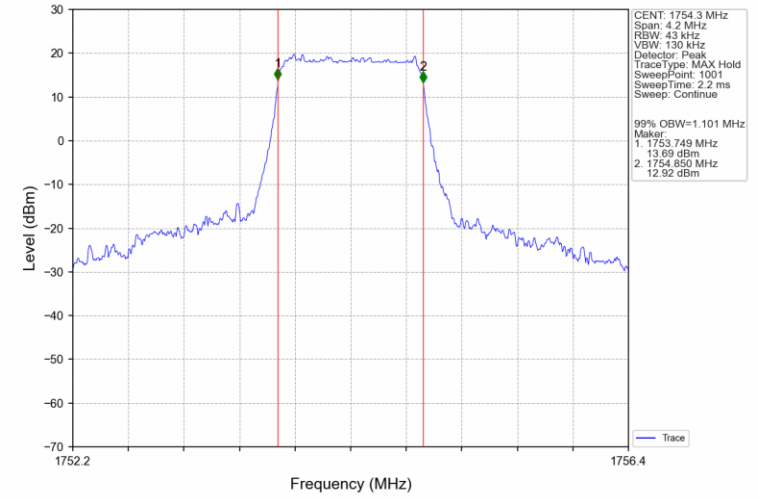
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



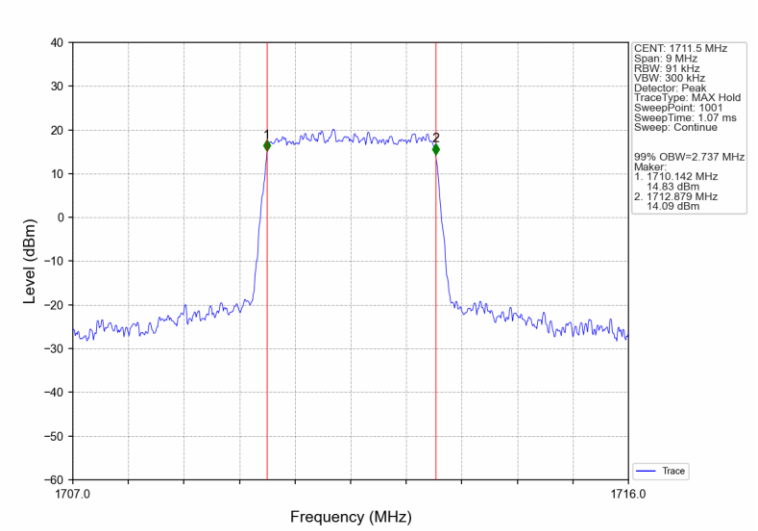
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



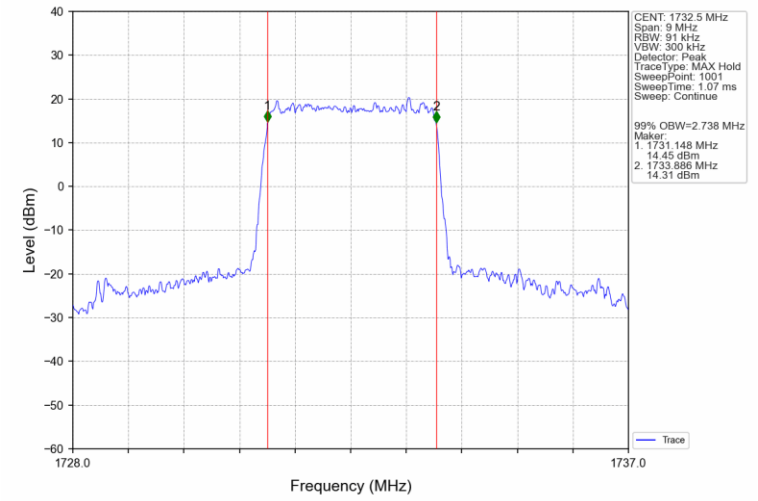
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



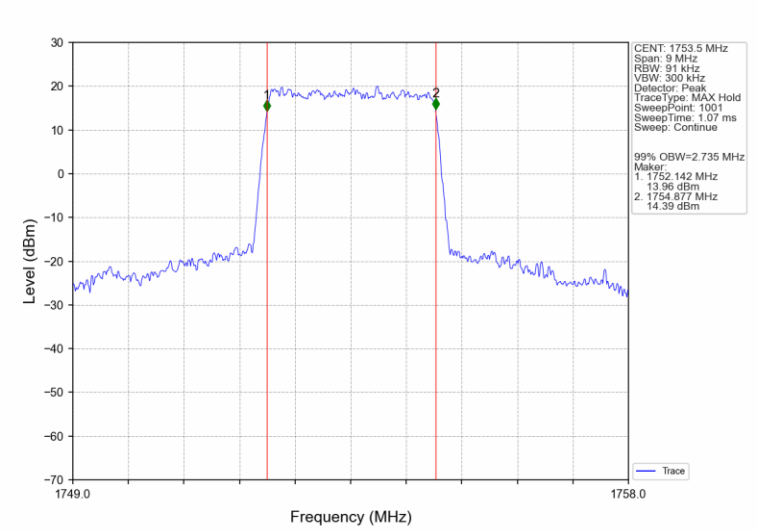
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



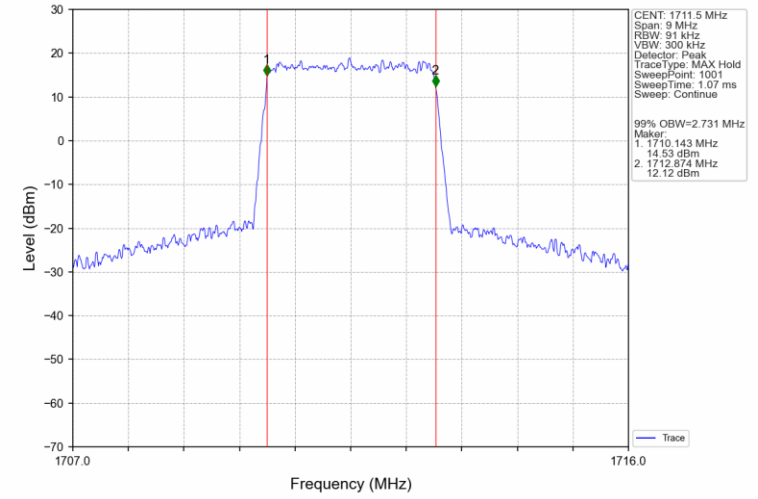
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



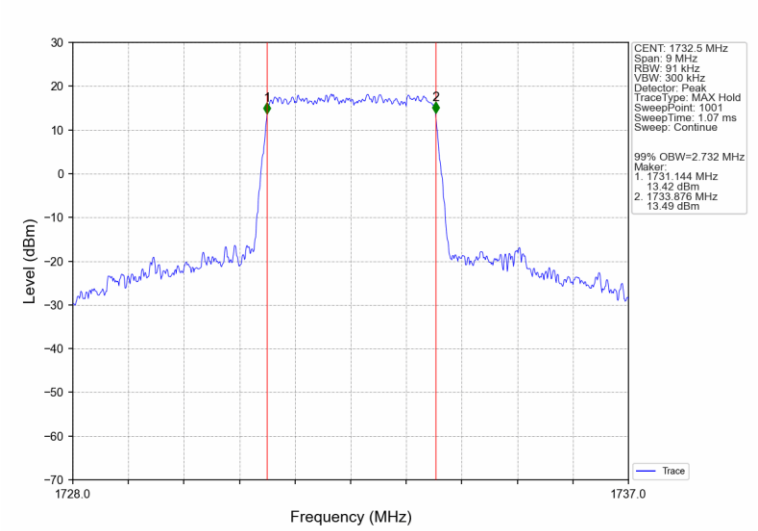
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



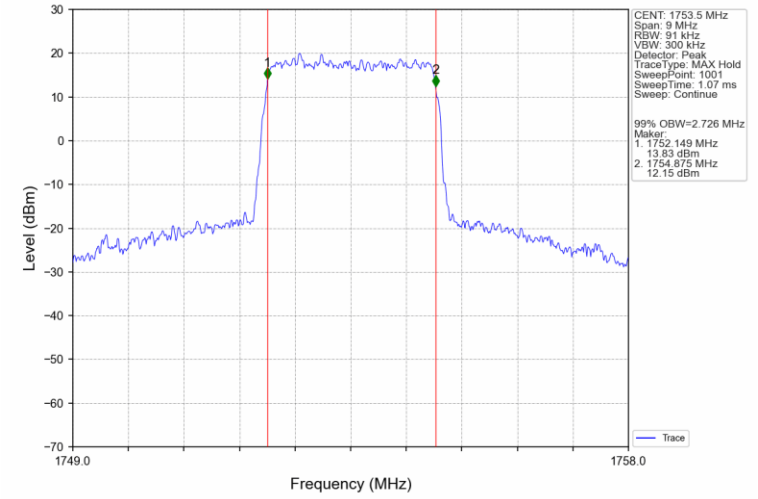
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



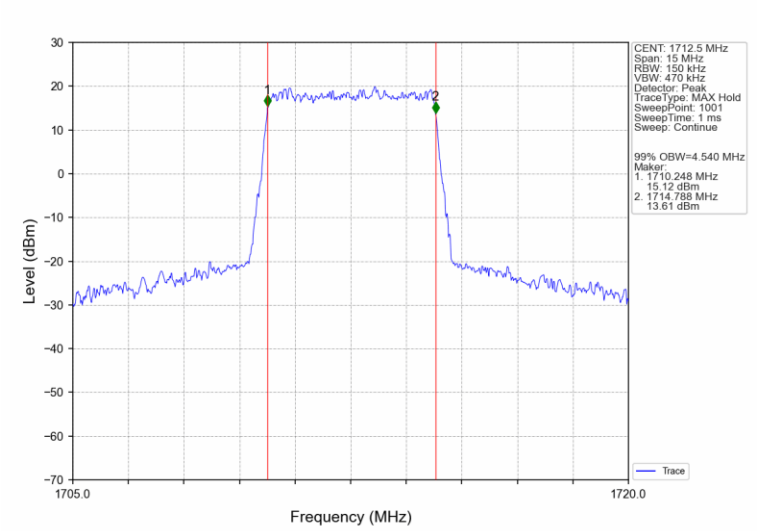
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



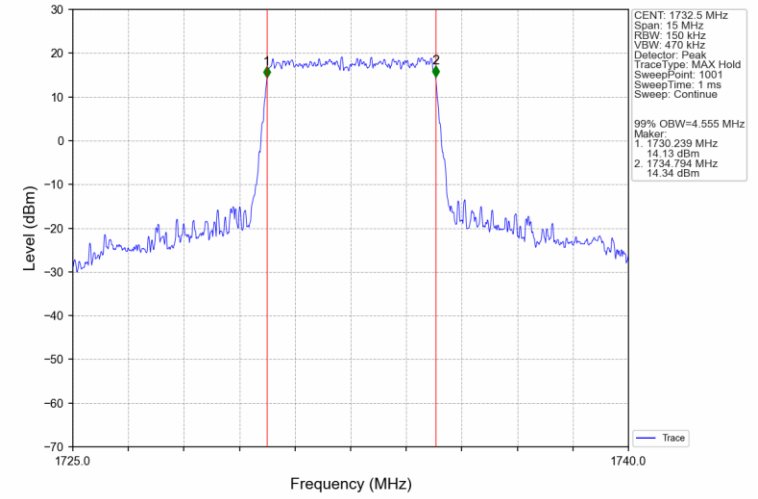
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



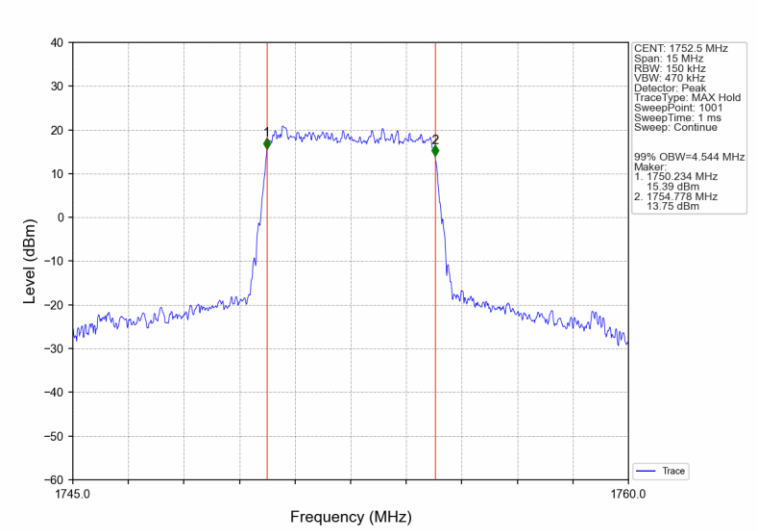
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



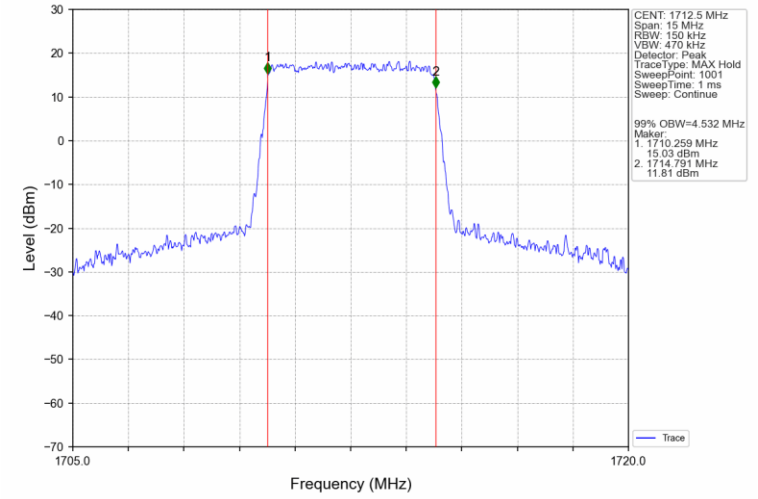
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



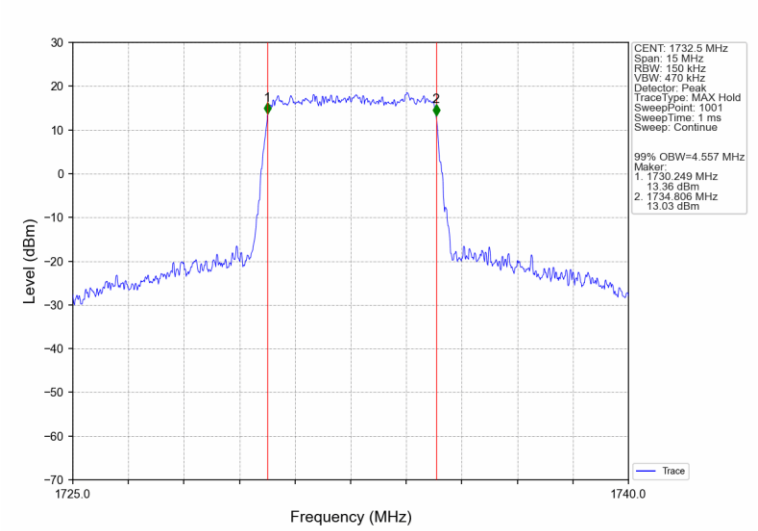
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



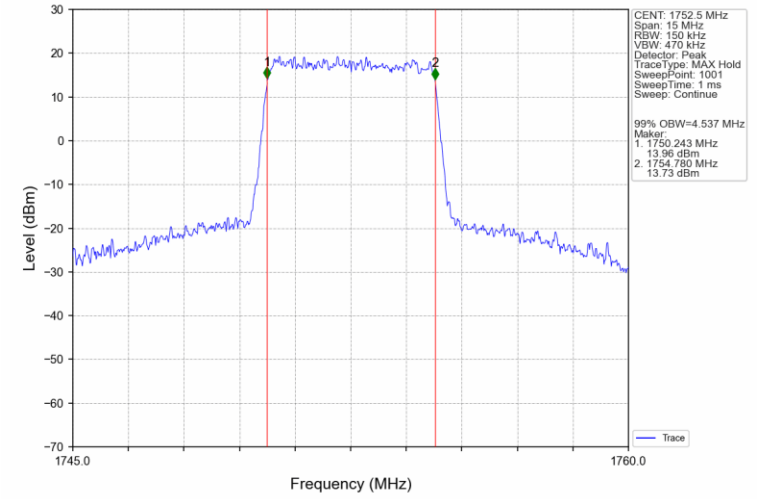
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



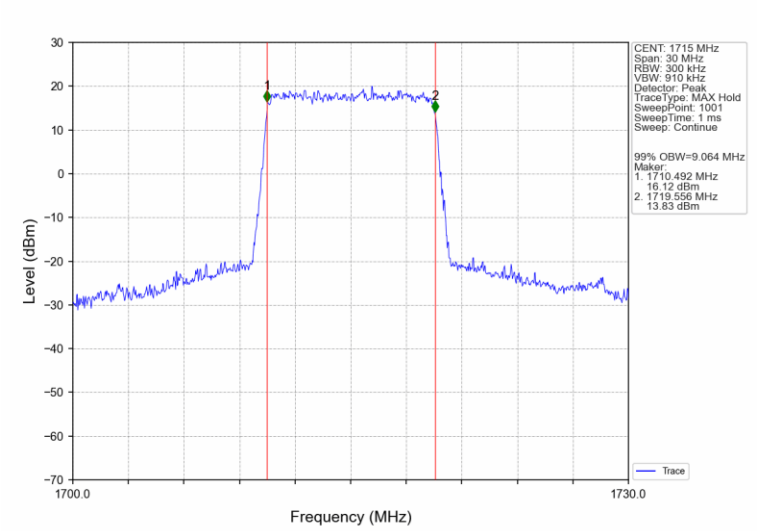
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



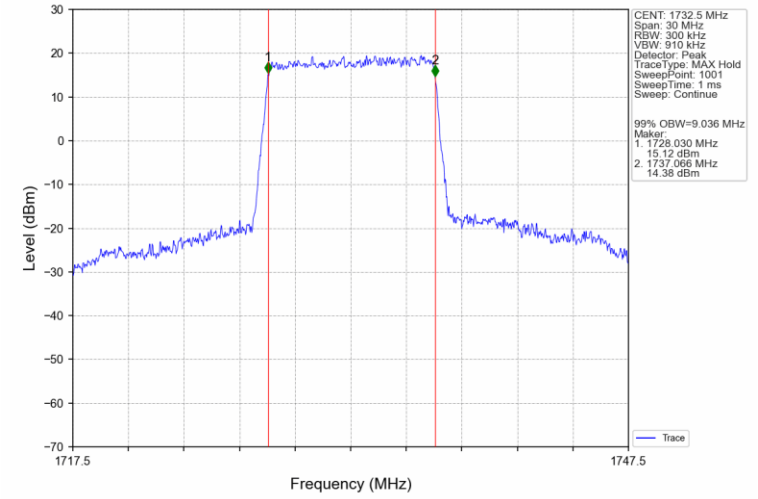
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



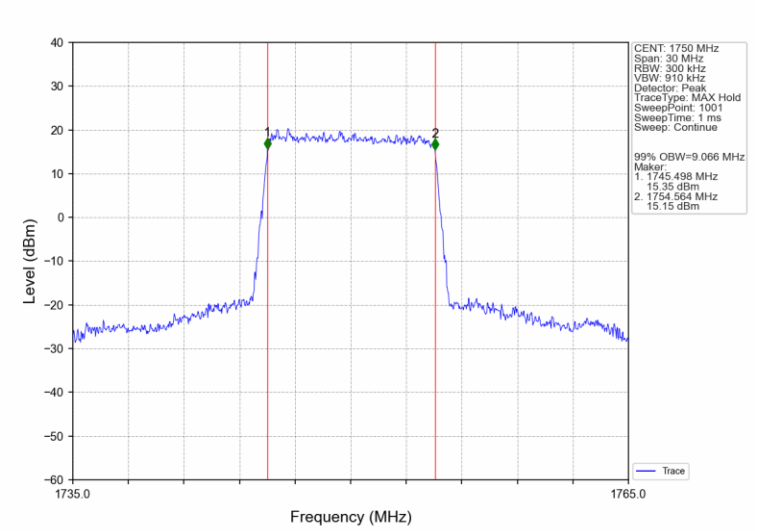
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



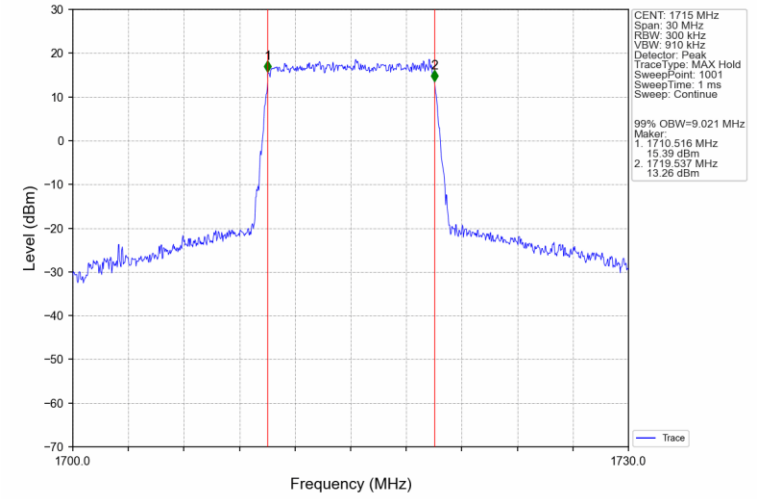
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



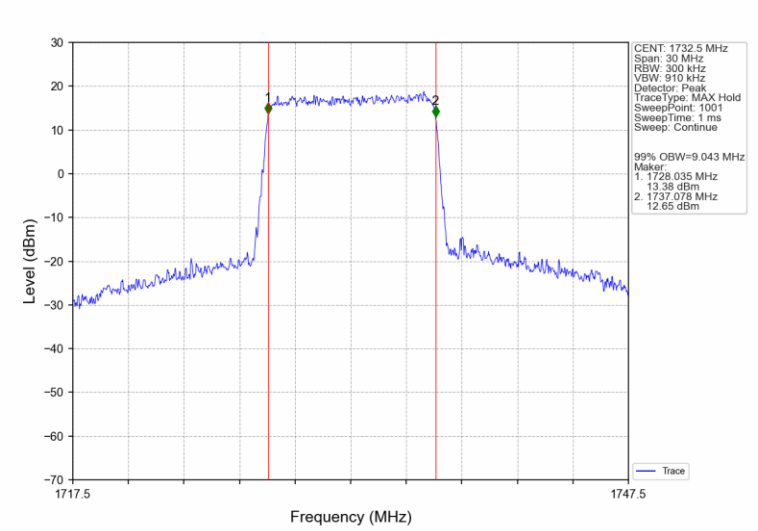
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



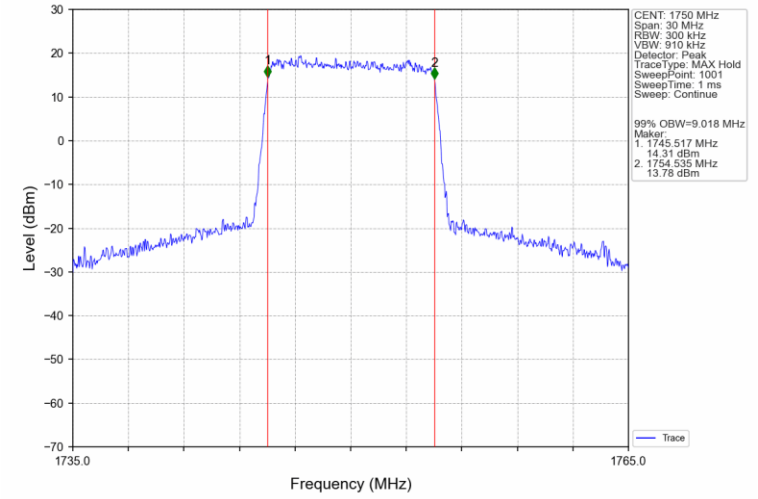
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV

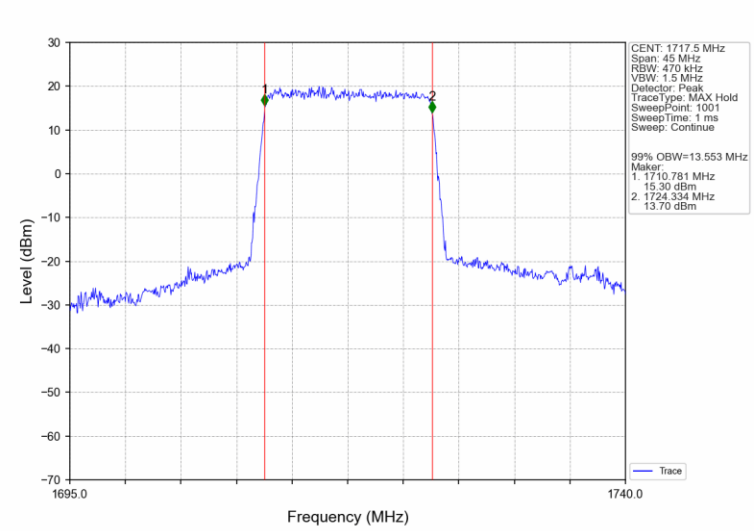
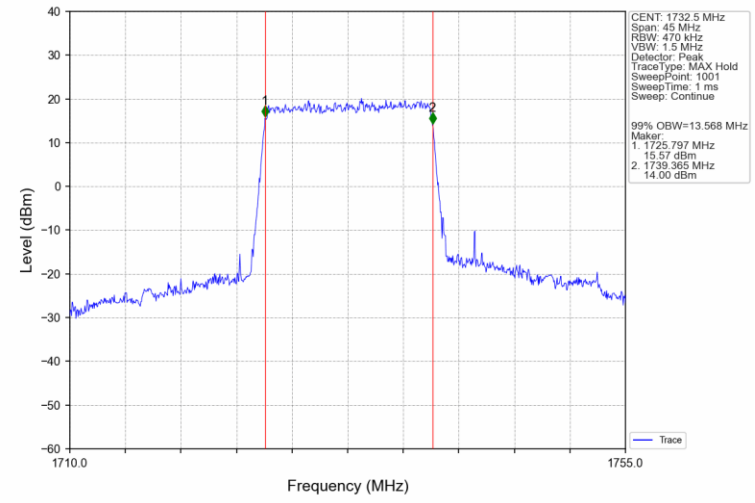


Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

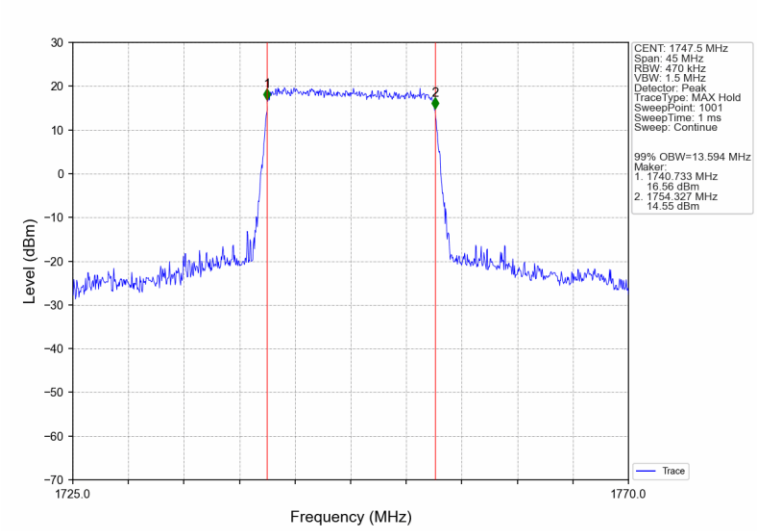


Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

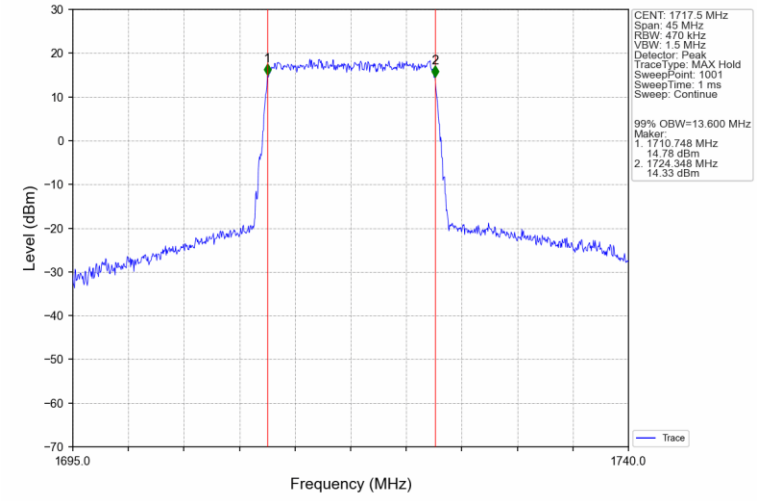


Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV


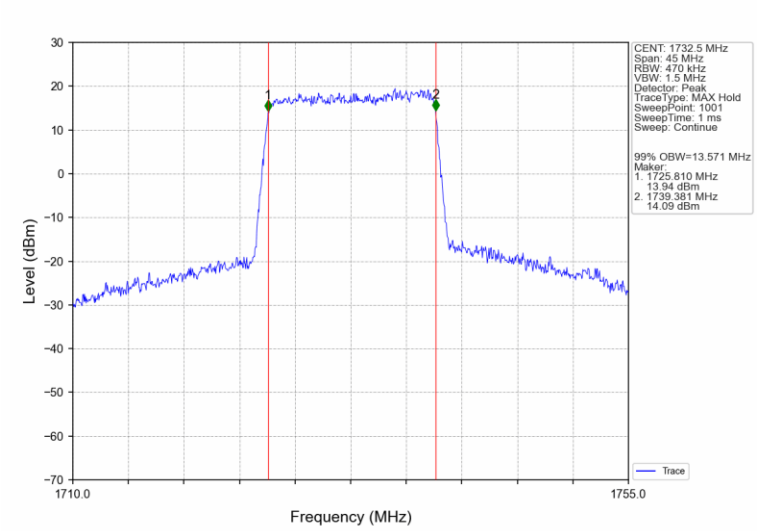
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



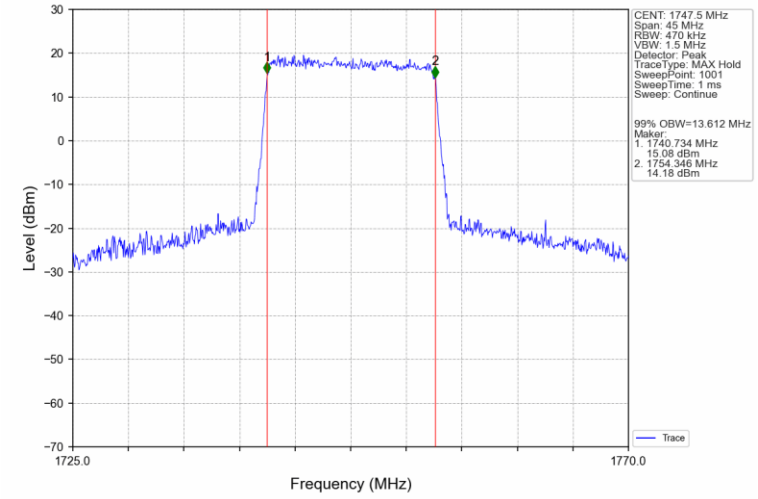
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



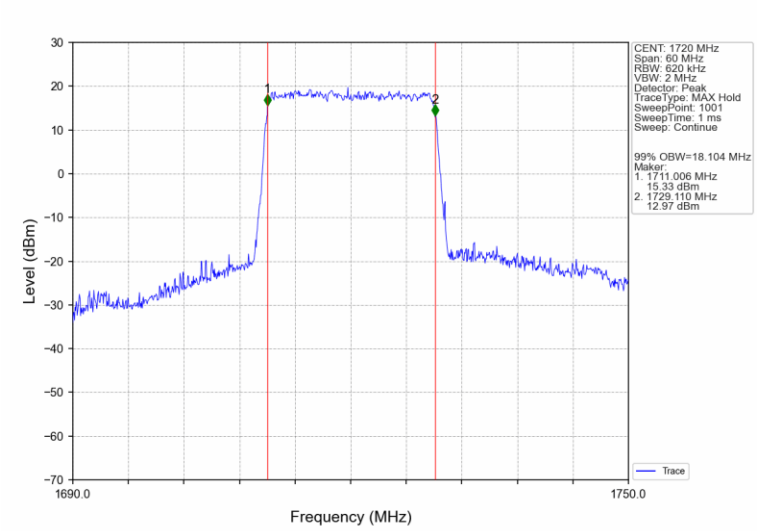
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



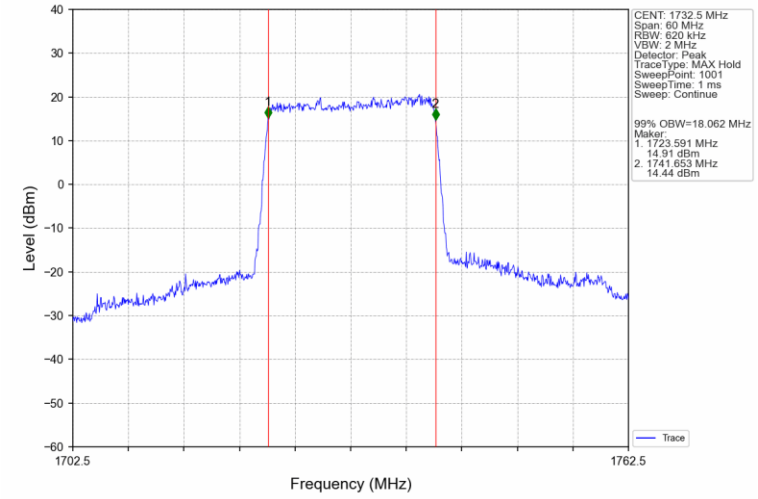
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



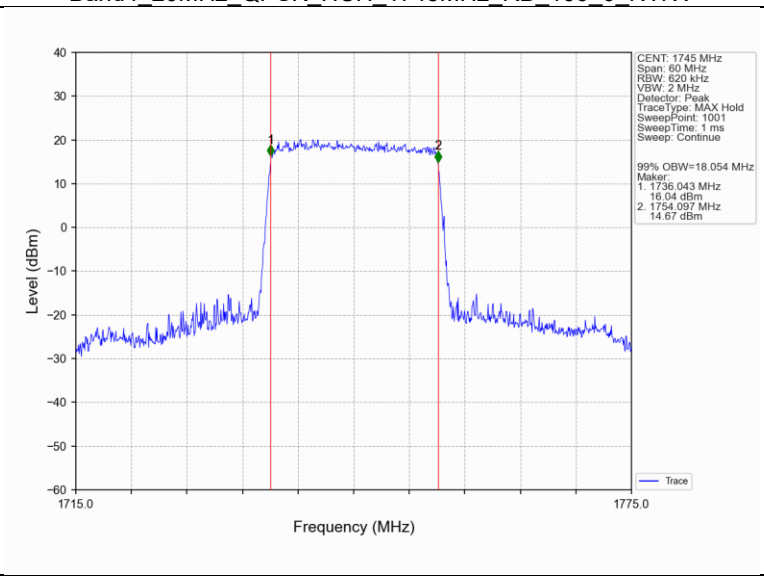
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



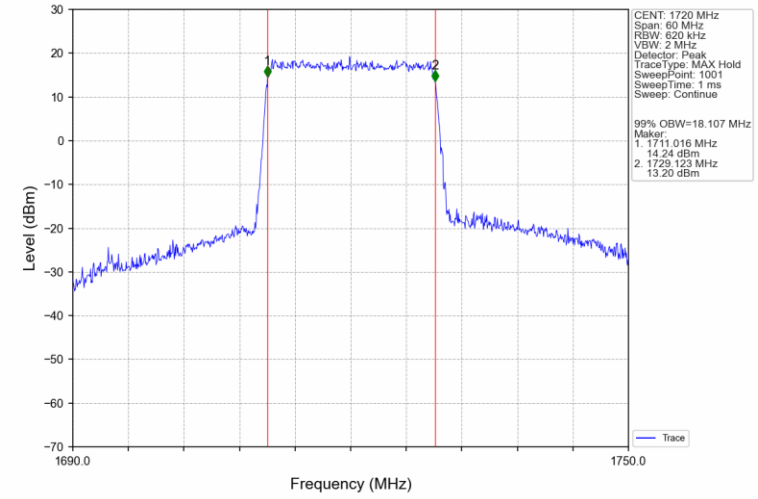
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



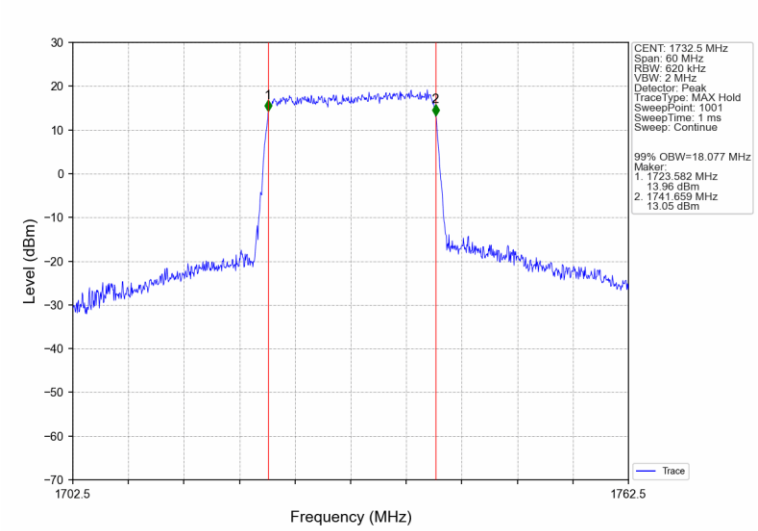
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



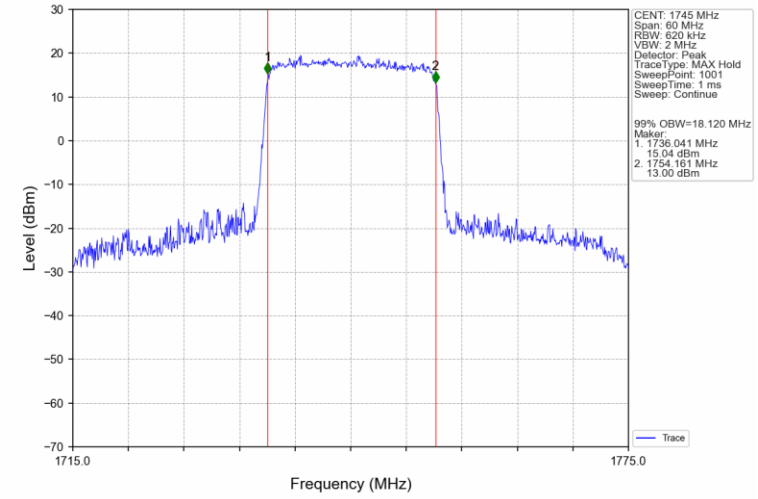
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



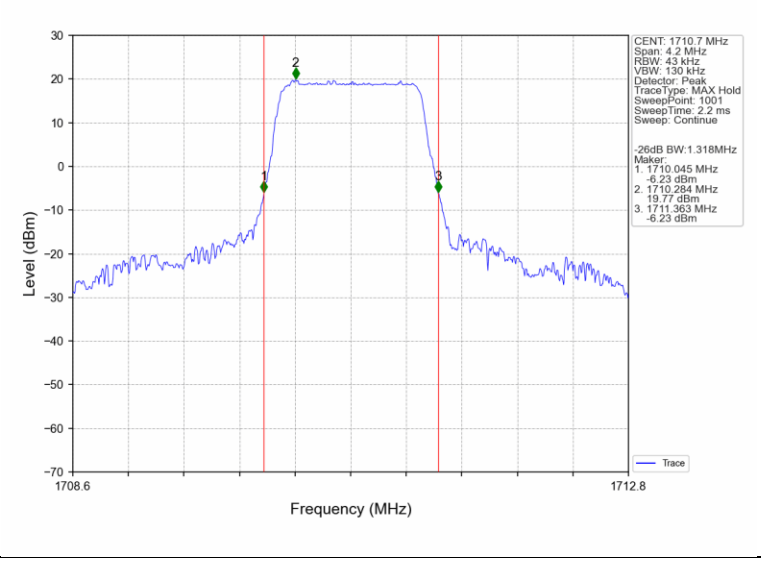
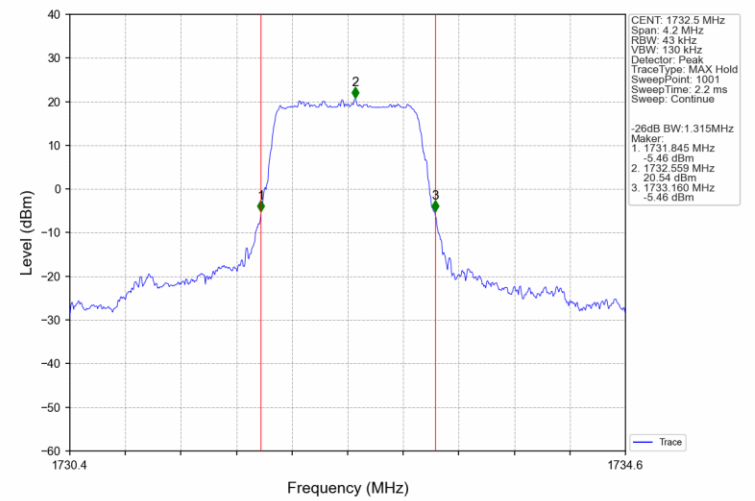
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



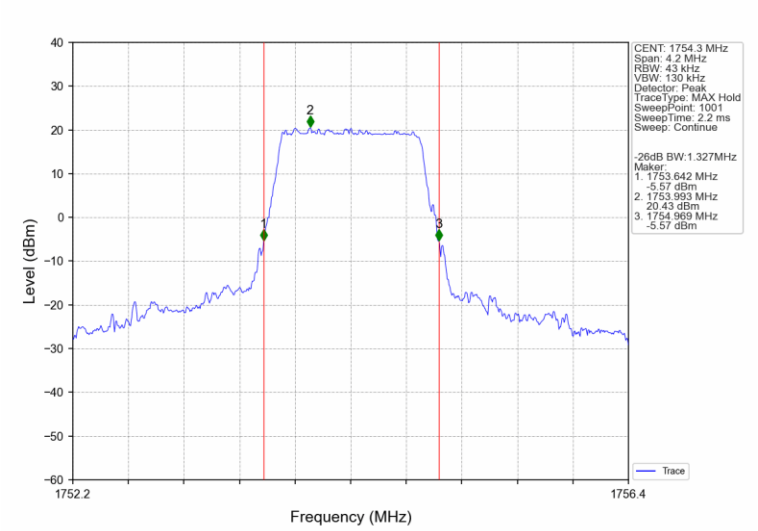
Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



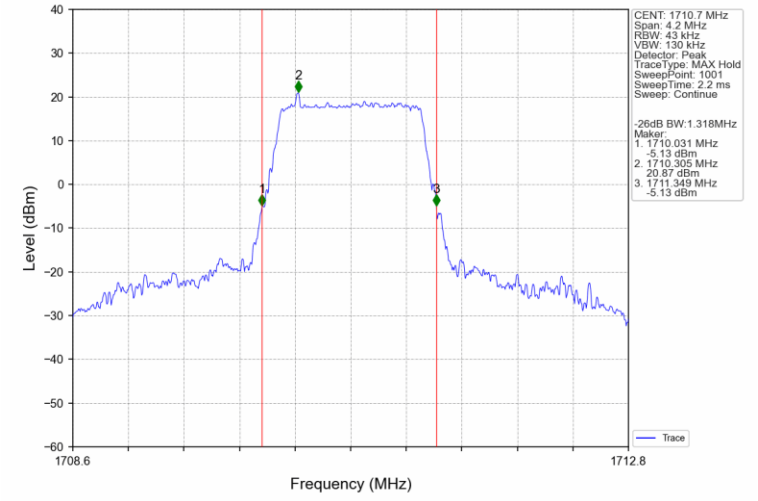
4.2.2 Band4_XDB

Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV


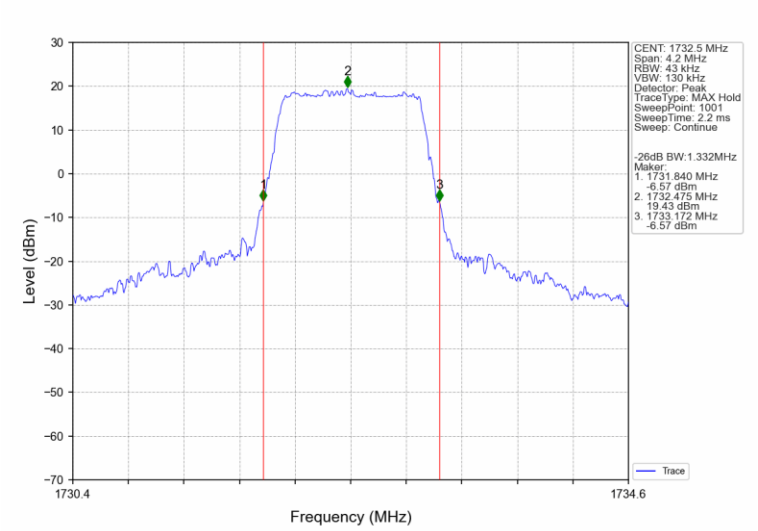
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



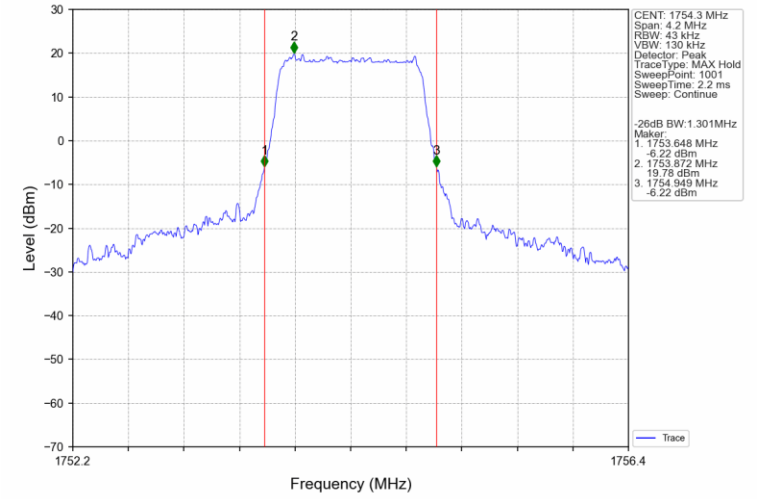
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



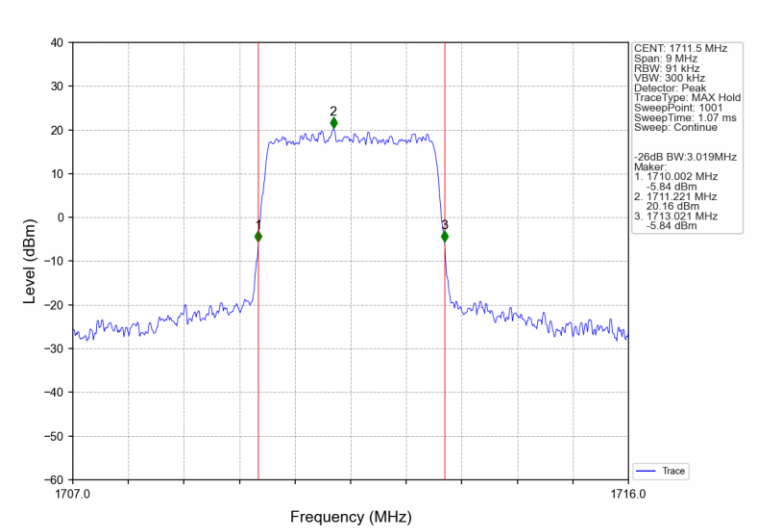
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



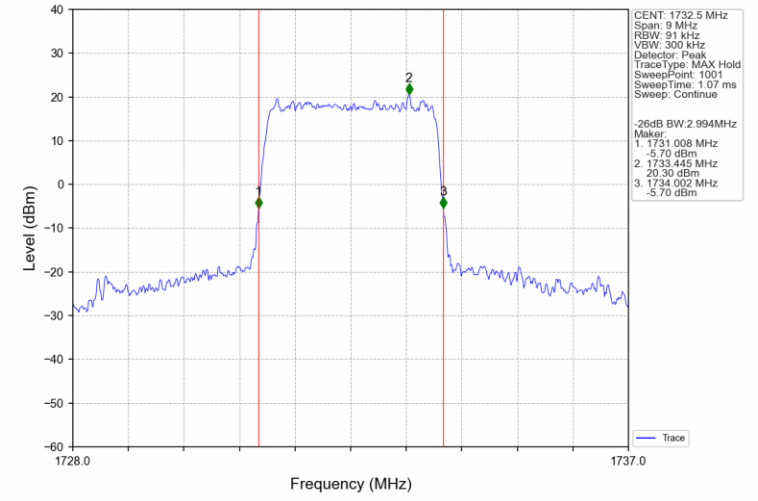
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



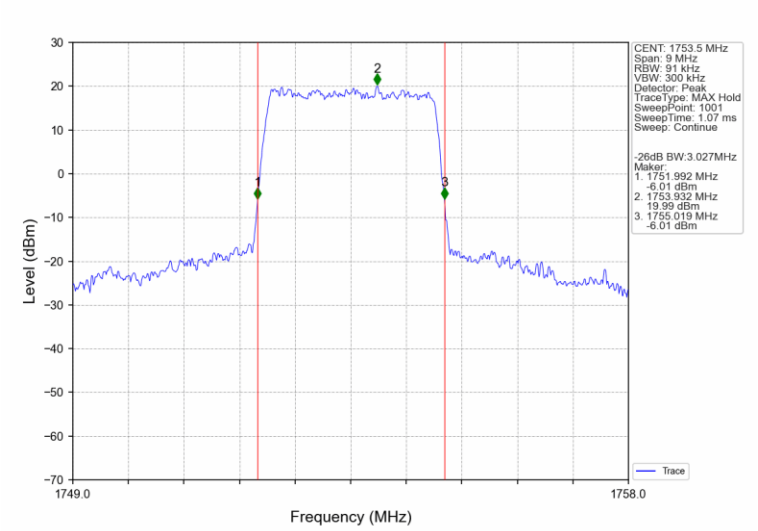
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



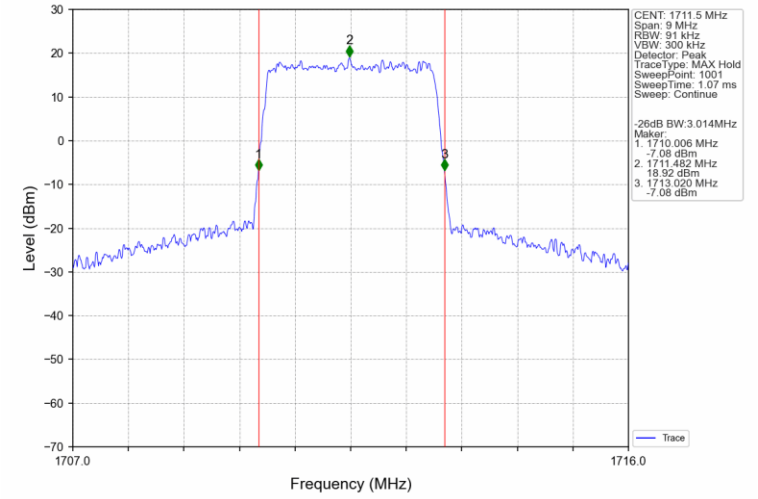
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



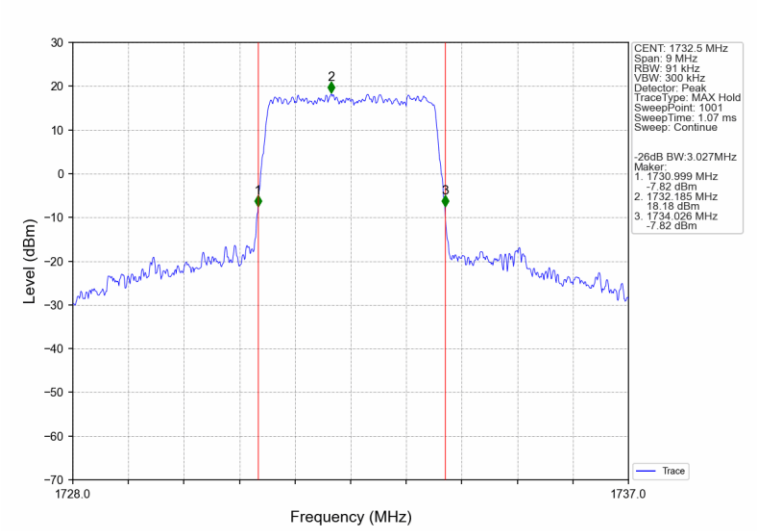
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



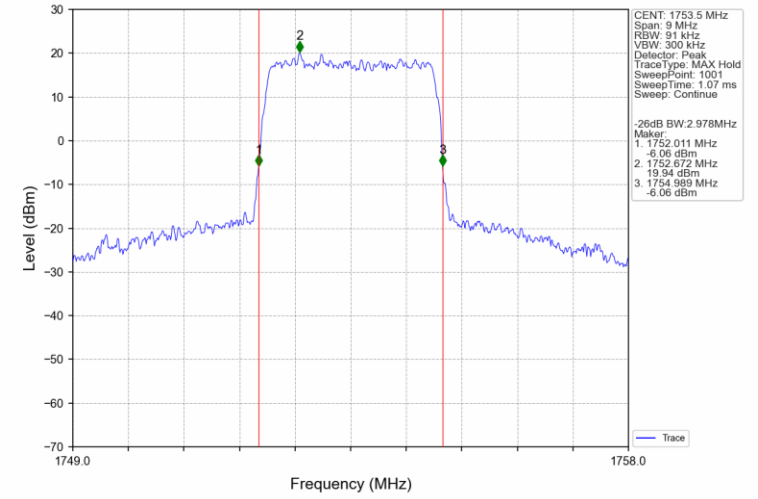
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



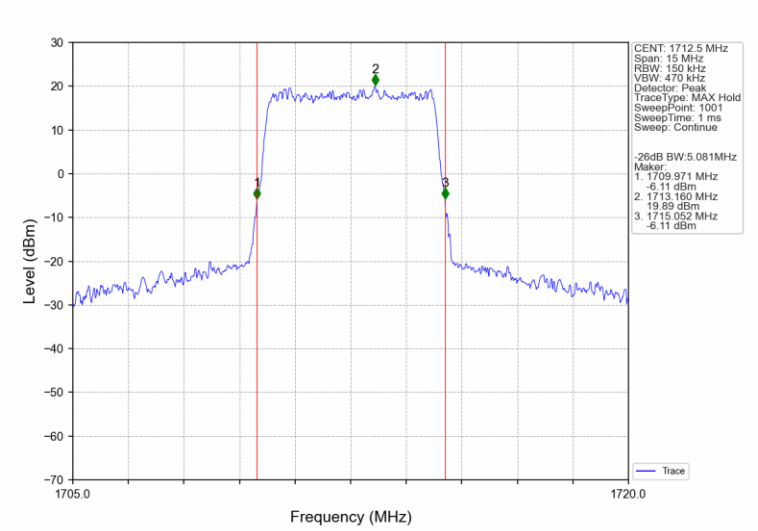
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



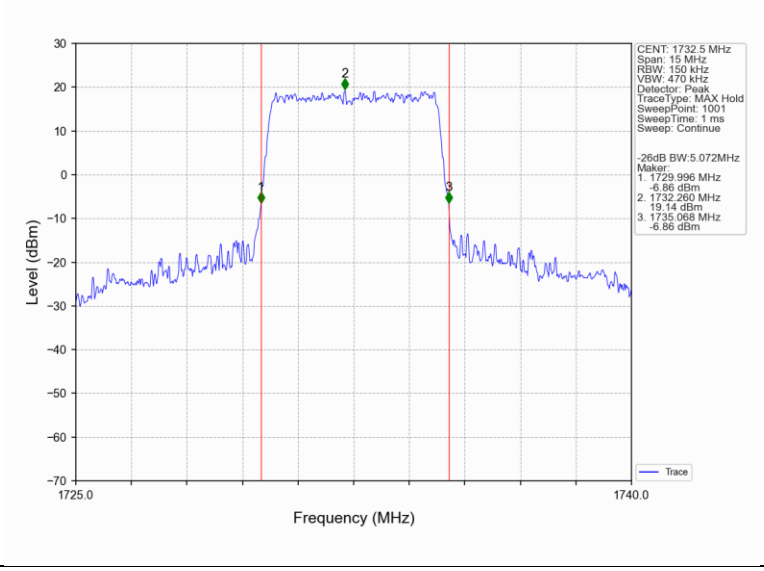
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



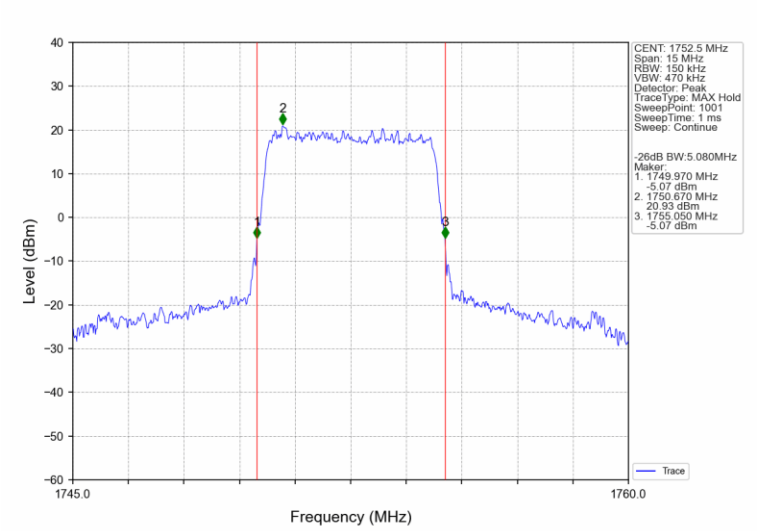
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



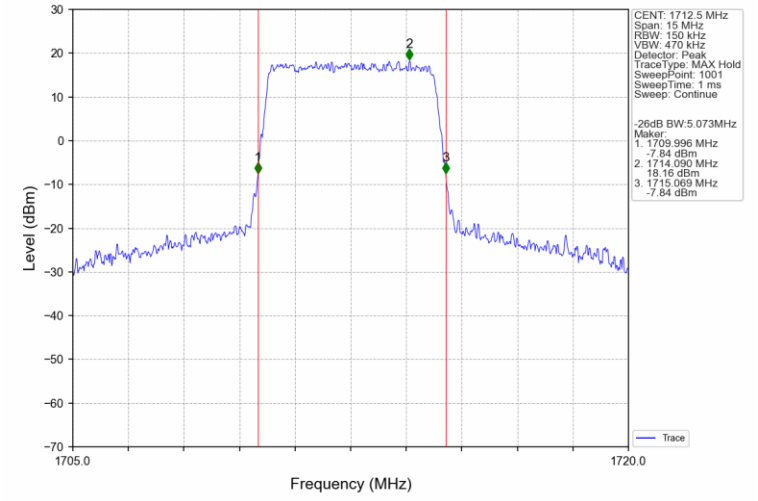
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



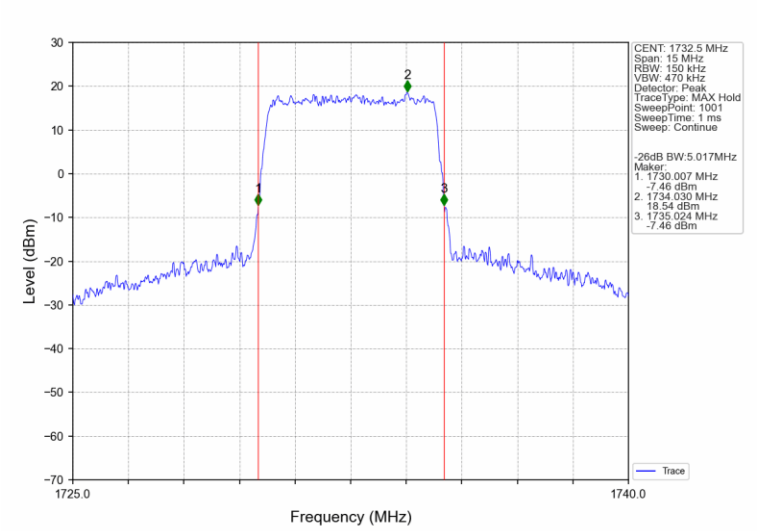
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



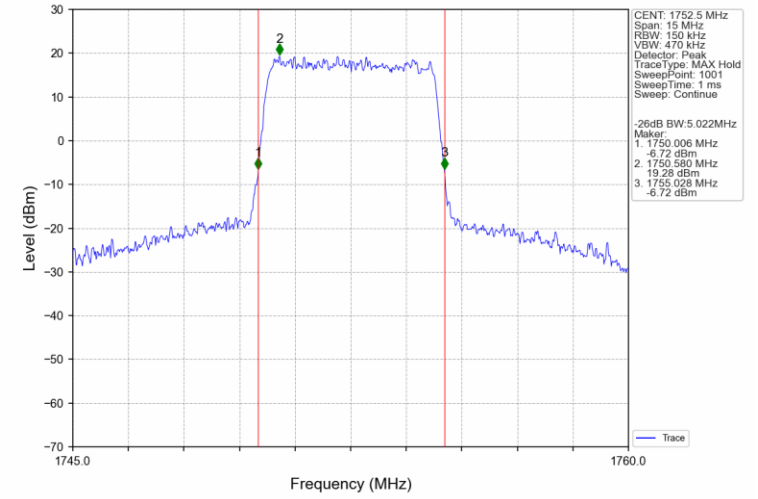
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



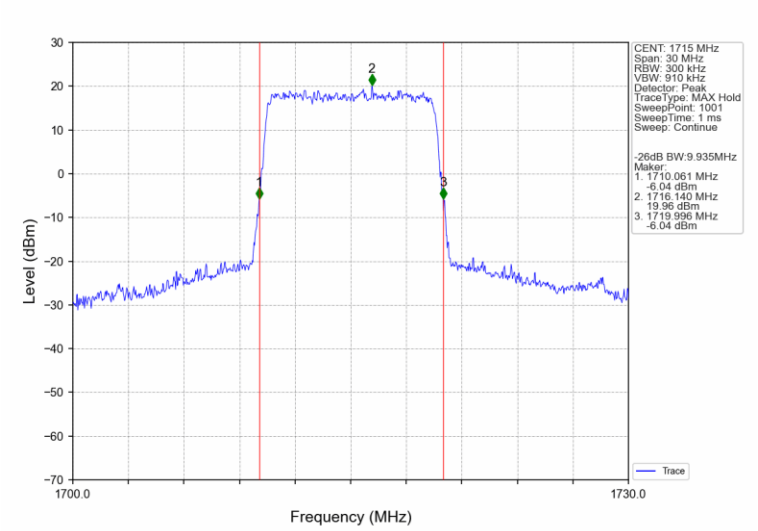
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



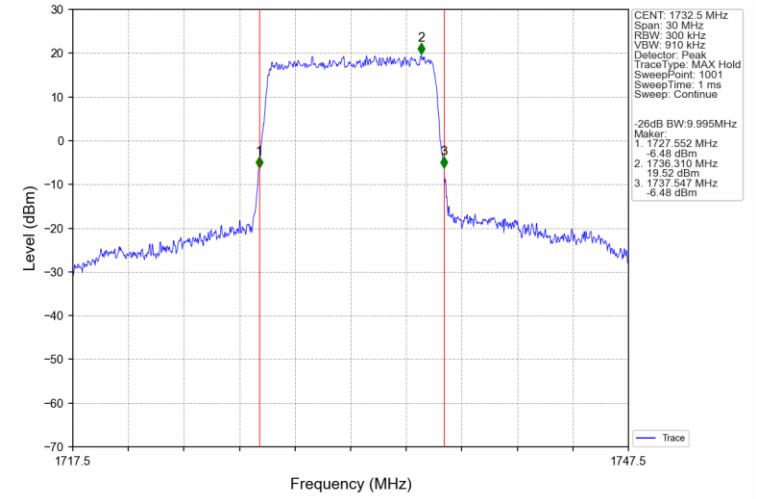
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



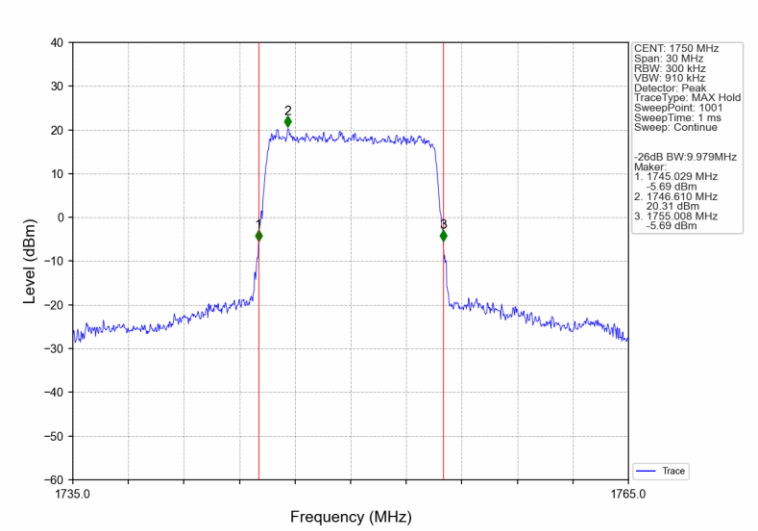
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



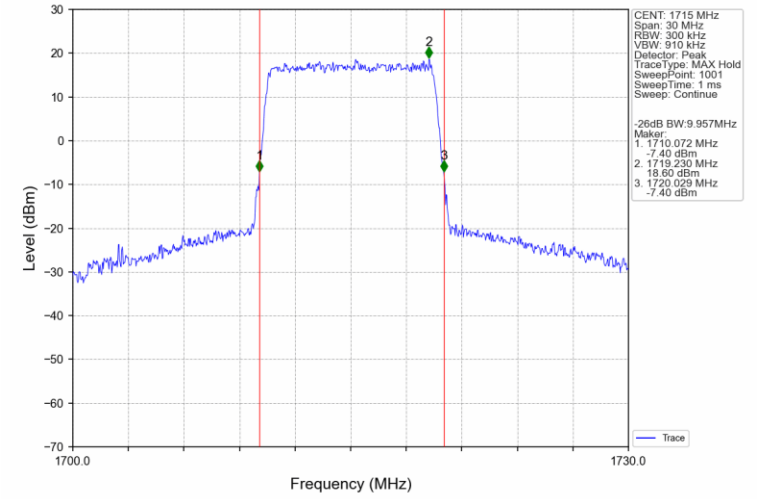
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



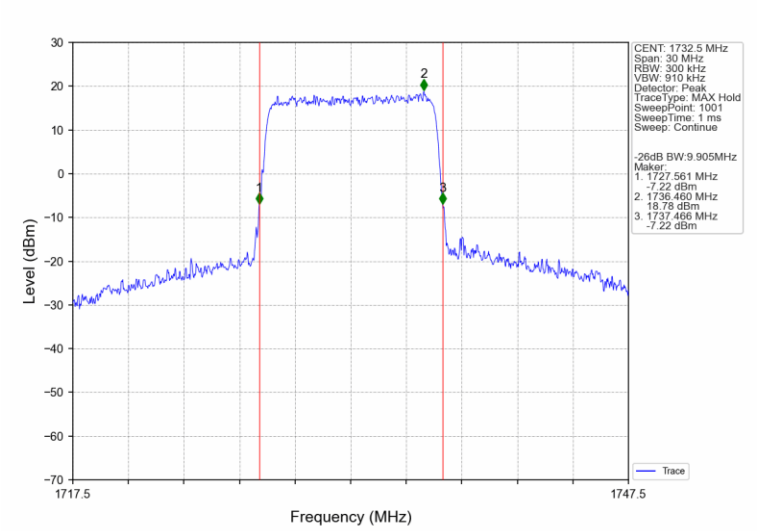
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV